THE PC-SIG ENCYCLOPEDIA OF SHAREWARE

A Comprehensive Guide to Low Cost Software for IBM and Compatibles

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A Comprehensive Guide to Low-cost Software for IBM and Compatibles

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We dedicate the Encyclopedia of Shareware to the shareware authors whose considerable talents fill this book. Their extraordinary qualities of generosity and creativity have produced a unique asset for the personal computer community. As part of that community, we offer this expression of our gratitude and admiration.

We further wish to acknowledge the contribution of all the end-users of shareware software. Your interest in low-priced, quality software and your support of shareware authors with payment of registration fees make shareware work for everyone.

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Accounting, G/L, A/P, A/R, Payroll
Accounting, Home Checkbook Management
Accounting, Home/Personal
Accounting, Inventory Control
Accounting, Job Costing and Bill of Materials
Accounting, Purchase Orders
Accounting, Time-Billing Management
Agriculture
Archive/Compression Utilities
Artificial Intelligence
Astrology and Fortune Telling
Astronomy and Space Exploration
Auto/Vehicle Management
Banner Makers
Barcodes
Bible Study
Bulletin Board Systems (BBS)
Business Specific Systems
CAD (Computer Aided Design) and Designing
Calculators
Chemistry and Physics
Children's Programs (ages 2-10)
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Conversion Programs
Copy Utilities
DOS Shells
DOS and PC Training and Education
Database, dBase Utilities
Databases
Desktop Organizers
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Ham Radio
Hard Drive Utilities
Health Management
History, Educational
Home Management
Hypertext
Integrated (Wordprocessing, Database, and Spreadsheet)
Investment Management
Label Makers
Language Study, Foreign
Library, Dewey Decimal, etc.
Loan Calculators
Lottery
Mail Lists, Address Managers, and Telephone Organizers
Maps
Math and Geometry Programs
Menu Programs
Movie/VCR/Music Databases
Music
PCjr

Paint and Drawing Programs
Personel Management
Photography
Practical Jokes
Presentation Graphics (Slides)
Printer Managers
Printer Utilities
Printer Utilities, Laser
Printing, Sideways
Programming Tools
Programming, (Specific Language)
Programming, Assembly
Programming, BASIC
Programming, C
Programming, Forth
Programming, Fortran
Programming, Modula-2
Programming, Pascal
Project Management
Quotes, Bids, and Estimating
Real Estate and Property Management
Reference Materials
(Books/Articles/Information/Data)
Resumes and Job Search
Sales and Prospect Management
Schedulers, Calandars, To Do Listers and Ticklers
Security — File, Disk, or System
Spelling, Word, and Vocabulary Quizzes and Games
Sports Management
Spreadsheet Templates
Spreadsheet Utilities
Spreadsheets
Statistical Packages
Survey Tracking
Tax Preperation
Teaching, Grading Systems and Recordkeeping
Test and Quiz Preparation
Trivia
Typing, Educational
Utilities, Macro Programs
Utilities, System or Hardware
Visually Impared, Programs
Word Processor and Text Utilities
Word Processors, Text Editors, and Outliners
Word Processors, Educational
Writing and Composition Aids

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■ ***SHAREWARE AUTHOR SUBMISSION FORM***

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INTRODUCTION

Why an Encyclopedia of Shareware?

Have you ever spent your entire day running from one software store to another, talking to salesperson after salesperson, all in search of a good piece of software? Well, The PC-SIG Encyclopedia of Shareware takes the legwork out of finding the right software. As a guide to more than 1500 great shareware programs, this book introduces you to an entirely new way of buying software; a way that is both convenient and affordable.

Whether you need a program to help run your business, manage your home, keep your bowling league organized, trace your family tree, or even demonstrate molecular bonding, this encyclopedia has already found it for you. From powerful spreadsheets and databases to games and home accounting programs, it's all available for a fraction of what you might expect to pay.

This book chronicles the growing world of IBM shareware, low-cost software. With shareware, copying software and sharing it with friends is not only permitted, it's encouraged. Through free and open distribution, shareware finds its way into the hands of those who want it and are willing to pay for it. By payment of a registration fee, sent directly to the shareware author, you will receive the right to continue using the software and in many cases receive added benefits like printed manuals, additional support, and program updates. This revolutionary method of software distribution virtually eliminates costly marketing, promotion, and packaging associated with typical software retailing. You'll notice the savings in the low prices you pay for these outstanding programs.

PC-SIG has taken great care to bring you this compendium of information in encyclopedia format. Only as an encyclopedia could this book deliver such comprehensive coverage of shareware. These pages provide you with a familiar system of organization so you can instantly find the information you need, no matter how specialized or obscure. In addition to program titles and general information, you'll find detailed program descriptions and product reviews to help you choose the right program for your needs. And since it's shareware, you can try these programs before you buy them.

PC-SIG: A Tradition of Service

For over seven years, PC-SIG has bridged the gap between software authors and end-users by bringing fine shareware programs to the attention of software buyers. Books such as this, PC-SIG's SHAREWARE Magazine, and numerous other publications have helped users around the world discover a wealth of great shareware.

Yet PC-SIG is more than a respected publisher of shareware information. PC-SIG is also the world's largest distributor of shareware and public domain software. Virtually every shareware program ever released can be found in the PC-SIG Library of Shareware. Additionally, every program in the Library is available to the computing public through PC-SIG and its international network of authorized dealers. By acting as a source for both shareware information and shareware programs, PC-SIG has brought organization and convenience to the rapidly-expanding shareware industry.

PC-SIG prides itself on the completeness and intuitive organization of its library. Considerable time and effort goes into making the PC-SIG Library easy to manage and user friendly for all levels of computer users.

Beyond being an international source for quality shareware, PC-SIG provides a wide array of services. PC-SIG serves shareware users by providing technical support, customer service, and prompt order-processing for those taking advantage of the PC-SIG Library. Simultaneously, PC-SIG serves shareware authors with dynamic new avenues for promoting and distributing their software.

By working closely with each individual shareware author, PC-SIG is able to keep the PC-SIG Library accurate and current year after year. As authors release new programs or update existing ones, PC- SIG is among the first to receive a copy. And since all PC-SIG software comes directly from authors, you are insured that the most complete and up-to-date version of any program can be found in the PC-SIG Library.

What is the ASP?

The Association of Shareware Professionals (ASP) is an affiliation of shareware authors dedicated to the shareware concept. The ASP is the first group to create standards and guidelines for shareware and its distribution.

Though the ASP is a relatively new organization, it is already having an impact on the shareware industry. By offering advice to fellow shareware authors on how their programs might be improved, the ASP is helping to maintain the overall quality of shareware programs. Through communication with shareware vendors, the ASP insures that shareware products are responsibly promoted to the software-buying public.

You'll notice that many of the programs in this encyclopedia are labeled as "ASP Member." This means the author is a member of the ASP and this program meets the ASP's standards for quality shareware. There are, however, many excellent programs covered in this book that do not bear the ASP distinction. As the ASP grows, more and more programs will likely be listed as ASP programs.

ASP wants to make sure the shareware principle works for you. If you are unable to resolve a shareware-related problem with an ASP member by contacting the member directly, ASP may be able to help. The ASP Ombudsman can help you resolve a dispute or problem with an ASP member, but does not provide technical support for members' products. Please write to the ASP Ombudsman at P.O. Box 5786, Bellevue, WA 98006 or send a CompuServe message via Easyplex to ASP Ombudsman 70007,3536. Membership information can be received at the same address.

PC-SIG is an approved vendor and associate member of the Association of Shareware Professionals. As an ASP Vendor, PC-SIG is recognized for its adherence to all ASP distribution standards, and for its accurate representation of shareware programs.

Call for Authors

Marketing your own software can be costly, competitive, and risky. It can also become a full-time job. Software publishers can help, but the battle for exposure is always intense. Thus PC- SIG invites you to take advantage of shareware distribution through PC-SIG. Become a shareware author and participate in the PC-SIG Library.

Regardless of whether a market is vertical, horizontal, or somewhere in between, more and more software authors are using shareware as their primary method of distribution. Through shareware distribution, software is made accessible to the entire computing community and at prices that reflect the quality of the program, not the package.

Programs in the PC-SIG Library enjoy many benefits and opportunities. Once your program is accepted into the Library it is listed in major PC-SIG publications such as this encyclopedia. Your program has the chance to be included in our national advertising campaigns. In-depth reviews of shareware programs appear in SHAREWARE Magazine. PC-SIG even pursues retail distribution and registered sales for some of the shareware products distributed through the PC-SIG Library. This is all part of the non-exclusive agreement that PC-SIG offers shareware authors.

As a contributing author you will join other shareware professionals who work closely with PC-SIG to bring great shareware and accurate product information to the public. You'll also be tapping into a source for a wide variety of shareware information: your free subscription to SHAREWARE Magazine provides industry information, the PC-SIG Author Newsletter keeps you in touch with other shareware authors, and PC-SIG itself provides feedback on your specific program and what users are saying about it.

PC-SIG is known for distributing the best that shareware has to offer. In keeping with that tradition, PC-SIG is seeking professional, fully functional software to complement its Library. Admission preference is given to full working versions and new or unique applications. No program that is crippled and could potentially frustrate a customer is allowed into the Library.

Regardless of how you are currently marketing your software, you should take a closer look at shareware marketing. Since shareware distribution is non-exclusive, it is compatible with just about any other marketing strategy you may be using. If you are just beginning to consider marketing alternatives, contact PC-SIG for an honest evaluation of your program and its potential as a shareware product.

Please see the Shareware Author Submission Form in the back of this book or contact: Library Submissions Department of PC-SIG.

It Works Like Any Other Encyclopedia

Only an encyclopedia could give you instant access to every shareware program in the vast PC-SIG Library, so PC-SIG has created just that: The PC-SIG Encyclopedia of Shareware.

Like any other encyclopedia, this book is organized alphabetically with references and keywords to guide you. Even if you don't find what you are looking for under the first word you try, you'll be told where to find complete information on your topic.

There are really four types of information (all listed alphabetically) in this Encyclopedia: short program descriptions, complete program descriptions, keywords, and definitions.

Short program descriptions are brief descriptions of the program and are listed alphabetically by the program title.

Complete program descriptions give in-depth information about programs and highlight the usefulness and benefits of the programs. These complete program descriptions are grouped together, within program categories. The program categories are listed alphabetically in this book. These categories were developed to group the descriptions of similar programs together. For example, all wordprocessors are grouped together, all spreadsheets are grouped together, and all databases are grouped together. For a listing of the program categories, see the Table of Contents.

Because there is no "one right way" to organize all the information the book, we have tried to anticipate the different ways you might access this information by including keywords. These keywords will refer you the program categories in the Encyclopedia that have the program descriptions for the type of programs you are seeking. For example, you may want to find information about "Adventure Games." Program descriptions are not listed under "Adventure Games," but a keyword would refer you to the category "Games, Adventure." Also, if you looked under Text Adventure Games, you'll be directed to the category, "Games, Adventure."

Here is another example. If you are looking for a program to help you design and draw mechanical parts, you might start by looking under "Graphics Programs." Under graphics there are no specific programs listed, but you are advised to see either "CAD (Computer Aided Design) and Designing," or "Presentation Graphics," or "Paint and Drawing Programs." If CAD (Computer Aided Design) sounds more like what you want, you should look under CAD (Computer Aided Design) and Designing. We have tried to consider every possible way you might look for a program. No matter what word you dive in looking for, we think you'll be led to the information you need. If you do manage to approach a topic from an angle we didn't anticipate, please try another related word.

In the computer world we use a number of words and phrases that are unique. Because some of these words and phases can be confusing, we have included them with their definitions.

In summary, this Encyclopedia is an alphabetical listing of short program descriptions, program categories (with complete program descriptions alphabetically listed within them), keywords, and definitions. So whether you browse the book from front to back, or use it to find something specific, we think you'll find this book both informative and fun.

In addition, if you know the PC-SIG Library by disk number, there is an index in the back that will tell you the programs on each disk.

ENCYCLOPEDIA LISTINGS

Convert Convert units from metric/English and English/metric for distance, area, volume, time, rate, heat, and more. See *Conversion Programs*.
(PC-SIG Disk# 1183)

Copy Fitting See *Word Processor and Text Utilities*.

Copy Utilities

■ Dcopy

DCOPY is an enhancement of the MS-DOS COPY command. You can still copy files, but you control the copying process based on the file's creation/revision date. The program also pauses when the new disk becomes full, lets you put in another, and even formats it! If you want, you can ask DCOPY to prompt you before each file is copied. Wildcard copies are supported.
(PC-SIG Disk# 936)
Special Requirements: *None.*
Author Registration: *$35.00*
User Comments: *"This program really helps our company distribute pricing information."*

■ DiskDupe

DISKDUPE was made for folks who need to duplicate lots of programs or disks in various formats.
It's versatile! It copies 5.25" disks whether they are standard 360K, AT high-density 1.2M disks, or even CPM/86 with eight sectors. It also handles 720K and 1.4M 3.5" disks.
It's fast! It duplicates 360K disks in less than 58 seconds. Using pre-formatted disks, the time drops to less than 26 seconds.
DISKDUPE uses your hard disk as a buffer so you can copy high-density disks exceeding your RAM memory without slowing down.
You can quickly format disks ahead of time, copy image files from a diskette onto your hard disk, and specify a list of hard disk image files to create or copy from. It runs manually, or along with special auto-loader hardware available from the author.
(PC-SIG Disk# 1279)
Special Requirements: *Hard drive.*
Author Registration: *$39.00*

▼ ▼ ▼

This is a "short description" of a program. Each program in the Library has a short description; programs are arranged in alphabetical order. In addition, the program category (in this case Conversion Programs) is noted. This is where a complete description of the program resides.

This is an example of a keyword. We have included a large number of these keywords and where appropriate, definitions. Also, the program category (in this case Word Processor and Text Utilities) is noted. This is where complete descriptions of programs that answer this need reside.

This program category heading introduces a grouping of programs with similar functions. These are also listed alphabetically throughout the Encyclopedia. For a complete listing of categories see the Table of Contents

This is the program name, complete description, and PC-SIG disk number. The PC-SIG disk number is our reference number and should be used whenever ordering or requesting information about a disk.

Here are any additional system requirements that exceed our assumed minimum requirements of 256K RAM, a single disk drive, and a monochrome (non-graphic) display. If the program requires a different computer configuration, only the differences from the standard configuration will be noted.

This is the author registration in US dollars. If you find the program useful, this fee is paid directly to the shareware author. The payment of the registration fee allows you to continue to use the program and in many cases you will receive added benefits like printed manuals, additional support, and program updates.

These are comments that have been submitted to PC-SIG, by users like you, about the programs. We've included them to give you more information about how other users are using the program or any unique features the program might contain.

This signifies the end of a program category.

Program Versions

Shareware authors continually improve their programs . Typically, authors associate a version number with each release or upgrade of their programs. In fact, authors so frequently update their programs that about one third of the programs in the PC-SIG Library change every six months. Because the programs are updated so frequently, we felt it was inappropriate to list program version numbers. PC-SIG always carries the latest version and if you need any information on program versions, please call.

BEGINNING WITH SHAREWARE

Using shareware can be a great way for beginners to start computing. In addition to finding programs to help you learn computing, you'll be able to experiment with numerous shareware applications that cost nothing to try.

This beginners' section will get you started by introducing you to the different parts of your computer, showing you the most basic commands of DOS, and giving you special tips on how to use shareware.

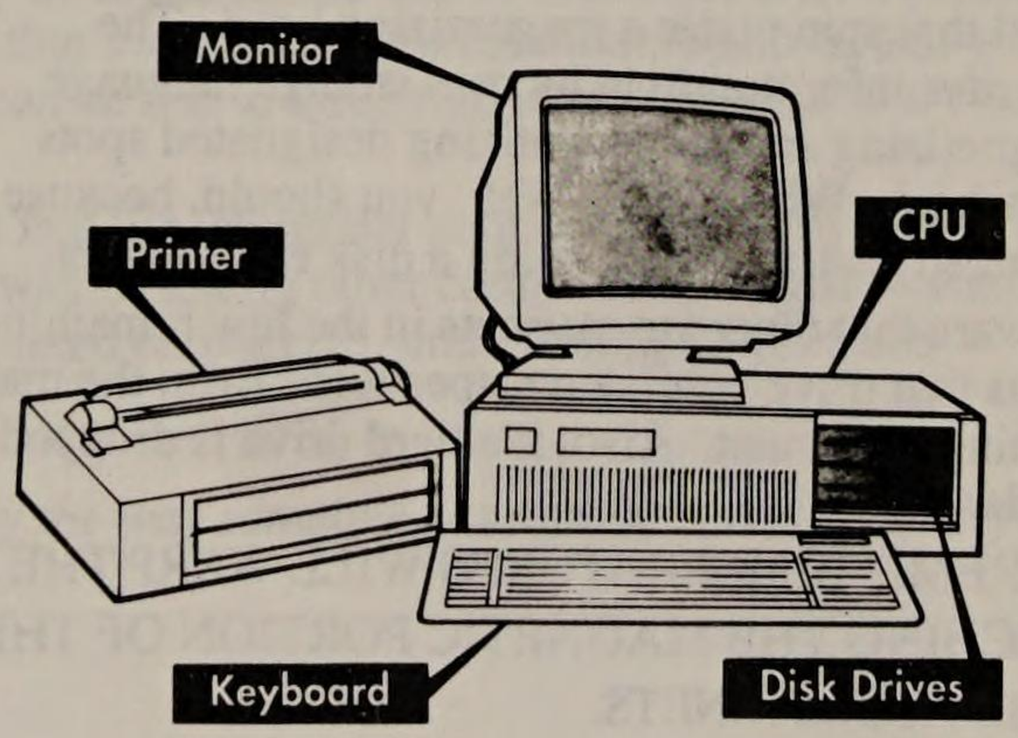
Hardware: Parts is Parts

OK, so maybe you know the difference between your keyboard, your monitor and that big box known as the CPU or Central Processing Unit; but do you really know what they do and how they work together?

Let's look closely at the CPU. It is called the central processing unit because this is where all the real computing takes place. In most cases, this is the part people refer to as the "computer." The monitor merely lights up the screen based on what the CPU tells it. The keyboard can send only simple signals that the CPU is smart enough to understand. A computer can run perfectly without either of these devices—no computing takes place in the monitor or the keyboard. That is why these devices are called **peripherals**.

If you ever get the chance to get inside the case of the CPU, take a good look. You'll find the circuit boards that make up a computer are very intricate—you would need to know some electrical engineering to figure them out.

There are only about three or four of these circuit boards in a computer, and they fit together very easily. There are four or five other preassembled components that also go into every computer, including the case, but that's it. So next time someone tells you they built their own computer, don't be so impressed. Putting a computer together can be less difficult than assembling some children's toys.



Above is a picture of a typical computer and its peripheral parts.

The Difference Between Hardware and Software

The physical parts of your computer are called hardware. Hardware is anything that you can touch, usually high-tech looking, and often expensive. Software, on the other hand, is information (usually stored on disks) that tells the hardware what to do, and if it's shareware it may not be expensive at all. Think of it like your favorite novel; the ink and paper are the hardware of a book, while the words and the story are the software that make it a best seller. But we'll worry about software later.

■ Memory Always Forgets

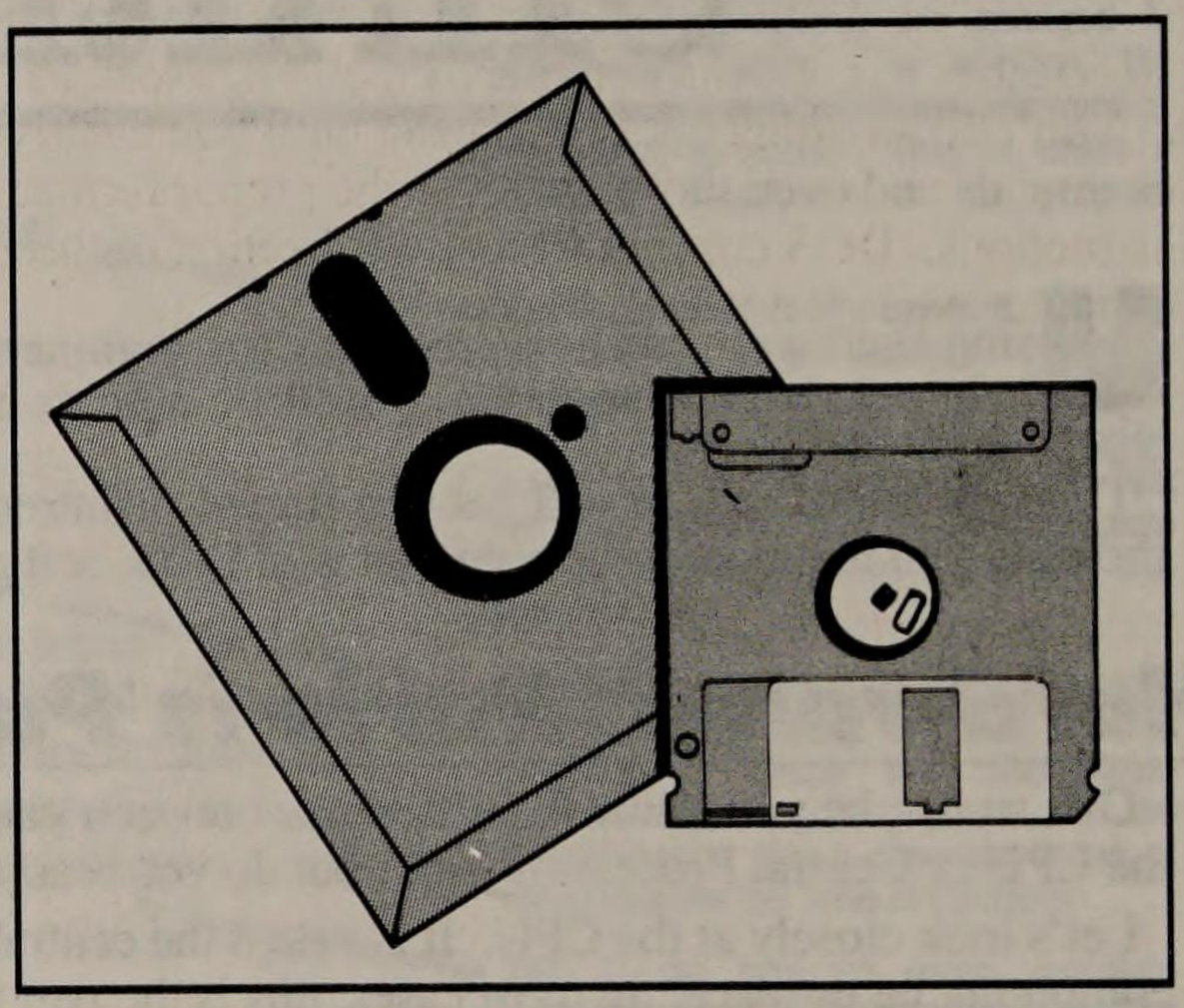
There are a couple of parts inside the CPU that are important to understand: memory and "secondary storage devices" (everybody else just calls them disk drives). The two are often confused by new users.

Memory is where the computer holds information that it is currently working on. Most computers today have 640K of Random Access Memory known as RAM. It is called RAM because the computer can instantaneously and randomly work with any one of the more than 640,000 pieces of information held in 640K of RAM. The computer works in RAM, and temporarily stores information in RAM, because RAM is the fastest place that a computer can store information.

But memory only works while the computer is turned on. Once the computer is shut off memory cannot hold any information. This is where disk drives come in handy.

■ Floppy Disks and Disk Drives

Floppy and hard disk drives are common types of "secondary storage devices," but they certainly aren't the only kind. The slot on the front of your computer where you slide in the floppy disk is the mouth of your floppy disk drive. Hard disk drives (called either hard disks, hard drives, fixed disks or sometimes Winchester drives) are usually mounted inside the CPU, out of sight.



Above left is a 5 1/4" floppy disk. Above right is the newer 3 1/2" floppy disk. Even though the smaller 3 1/2" disks are made of a firm plastic they are still called floppy disks. Pictured are the disks. The disk drives which read the disks are mounted in the CPU.

Both floppy and hard disks work on the same principal. There are thin wheels of magnetic material that spin under a magnetizing head. The head writes information in its own strange language by magnetizing and demagnetizing designated spots on the wheel. Who cares? Well, you should, because information can be damaged by touching the magnetized portion, or exposing a disk to a magnet.

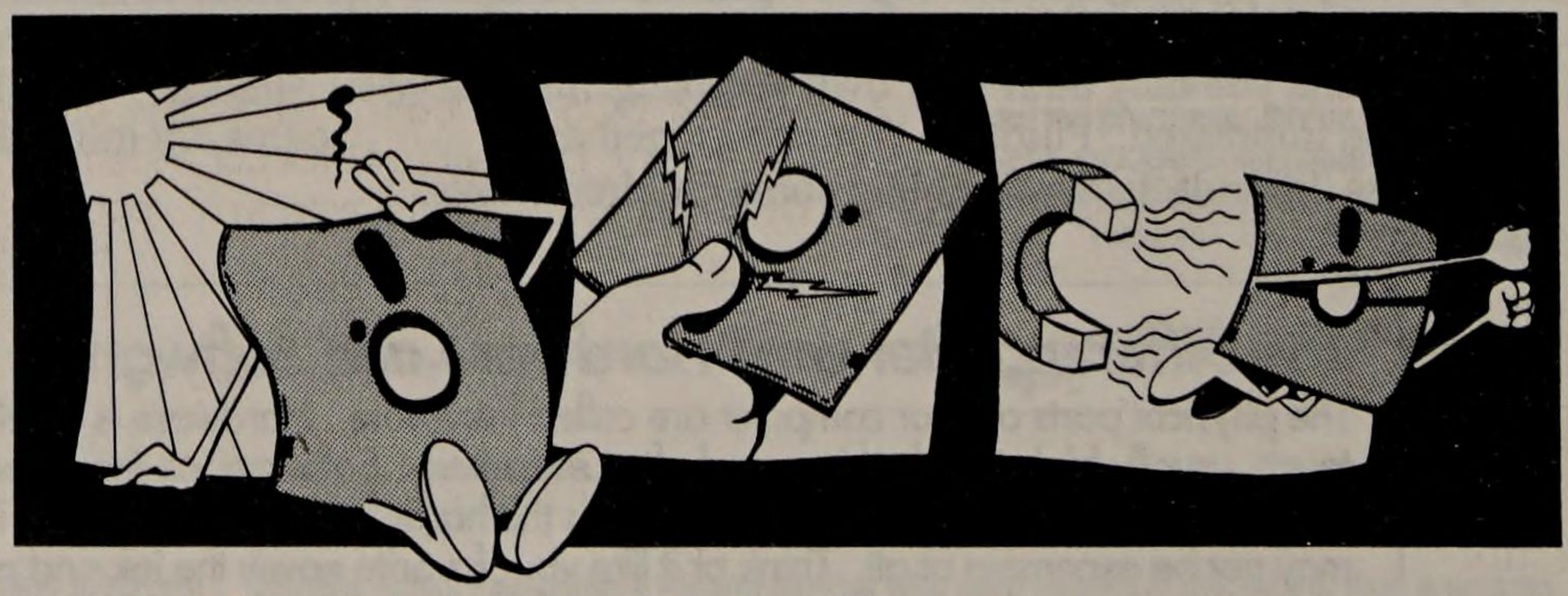
Be aware that there are magnets in the few remaining phones that really ring instead of beep. There are magnets that drive your stereo speakers. Even the magnets on a purse button might be enough to ruin something important. Also, if a hard drive is dropped or shaken, the head can crash into the wheel and cause damage.

EXTREME TEMPERATURES WILL WARP THE DISK.

TOUCHING THE MAGNETIC PORTION OF THE DISK CAN LEAVE OIL AND SCRATCHES.

AVOID ALL MAGNETS.

No matter how careful you are, problems with hard disks and floppies can occur without warning. Remember: if something is worth saving once, it is worth saving a second time as a backup. This can be a painful lesson if learned the hard way.



Above are a few "no-no's" when it comes to caring for floppy disks.

Enough DOS to Get You Started

■ What is it?

Though you have heard of DOS you may not be aware that it stands for Disk Operating System. Its name is quite descriptive because DOS is a piece of software that tells the computer how to handle information on the disk drives. DOS also acts as an interpreter, allowing you to talk to the computer in relatively plain language.

Nonetheless, DOS is not smart enough to understand just anything you type. Like a dog, DOS only understands a few basic commands that it has seen before. You can tell your dog to "take a load off," but he won't do anything but tilt his head until you clearly say "Sit!". In the same way, DOS needs certain commands and even those must use the proper format (or syntax) if the computer is to understand your instructions. **DOS commands** are a collection of these specific instructions that you can use to tell the computer what you want it to do.

■ Speaking the Language of DOS

There are a couple terms and concepts that are so fundamental to working with DOS you should fully understand them before you try to learn commands.

Filename (and Extension)

This is simply the name of a file (obvious but important). Since it's just a name, let's apply some Shakespeare, "A rose by any other name would smell as sweet." Yes, it is relevant . . . a file by any other name would work the same. The name has no bearing on what *can* be in a file. The computer does not really care what you name a file—it's just a way for you and the computer to keep your files straight.

A filename can be from one to eight characters long and made up of letters, numbers, or even a few other characters like the dash and apostrophe. Most people use simple words as filenames; words that describe what is in the file.

Extensions are short little appendages that can usually be found on the end of filenames after a period. (MAC users would call them prehensal appendages . . . that's some techno-evolutionary humor that you beginners will understand in a year or so.) Extensions *can* be one to three characters long, but don't have to be there at all.

Though a filename has no real bearing on what can be in a file, computer people have grown fond of using certain extensions on certain types of files. It's a way of letting other computer users know what is probably in the file. Some common extensions are discussed on page 15, under **Using Shareware**.

LAURA.LET

Above is a typical filename. It could be any file, but by the way someone has named it, it is probably a letter to a friend named Laura.

A Capital Idea

You'll notice the above filename example is in all "CAPS" (upper case letters). You can type filenames in either upper or lower case, DOS only looks at what letters are typed, not whether they are upper or lower case. The point is, DOS sees **LAURA.LET** is identical to **laura.let**. In fact, everything done in DOS, even DOS commands, can be entered in upper or lower case without any difference in how DOS processes the command.

Prompt

You already know that prompt means to cue someone, or tell them they're on. In computing, it's the same. DOS will prompt you with the letter of a disk drive followed by the greater than (>) sign, as shown below. (The prompt that your computer cues you with may look slightly different from the one below.

That is because prompts can be customized using the DOS command **prompt**. Customizing your prompt is beyond the scope of these pages, though it is covered thoroughly in your DOS manual.)

A>

A prompt like the one above is your cue that DOS is ready for a command. The letter displayed at the prompt tells you which disk drive is currently your "default drive."

Default Drive

The default drive is the disk drive you are working on. If the prompt reads **A** then your default drive is **A,** your first floppy drive. The default drive is important because your computer, unless otherwise instructed, will look there every time it needs to get or give information.

You can **change your default drive** by entering a new drive letter at the prompt. For example, you are on drive A and you want to switch to drive B (a second floppy drive is most likely called B).

A>B: [ENTER]

To go from drive A to drive B you enter the new drive letter followed by a colon and press the ENTER key.

You should also know that even within the default drive, access to files is narrowed down to just the "root directory," or "subdirectory" you're in.

Root Directory and Subdirectory

DOS allows users to organize files into what can be thought of as individual departments, or directories. Like filenames, this is another tool that DOS gives us humans so we can keep track of our files. Directories can be likened to a tree. Think of the **root directory** as the trunk. The files can be thought of as the individual leaves. Now, imagine a tree with all its thousands of leaves growing directly out of its trunk—what a mess!

Holding the leaves and connected to the trunk are the branches, the subdirectories. By naming your branches or subdirectories, and placing certain files in certain subdirectories, you can keep all your files organized. For example, you might want to create a subdirectory called Letters and keep all your letters there. Like a real tree, subdirectories that branch off the main root directory can have their own smaller branches. Maybe they should be thought of as "sub-subdirectories," but they're simply called subdirectories, too.

Subdirectories are especially useful when working with hard drives. Hard drives have so much more storage space than a floppy disk; you literally could have thousands of files all in the same place. It would be impossible to keep all those files straight unless you use subdirectories. There are a few commands that give you the power to use subdirectories. (In these examples, the sample subdirectory "Letters" is used, though you could substitute anything in its place.)

A>MD LETTERS

A>RD LETTERS

A>CD LETTERS

Above are examples which use the three commands needed to work with subdirectories. The first **MD** *stands for Make Directory. With the command* **MD LETTERS** *given from the A prompt as above, you would create the subdirectory called "Letters" and it would be a branch off the root directory of A. The root directory generally doesn't have a name other than "the root."*

RD LETTERS *would Remove the Directory "Letters" when executed from the root drive. Directories can only be removed with this command when they are empty, when they contain no files. The root directory cannot be removed.*

CD LETTERS *will change your position from the root directory to the subdirectory named "Letters." Now this subdirectory is your "default directory." (Above we defined default drive as the drive you are currently on. Well, default directory is the subdirectory on the default drive that you are currently working in.)*

While subdirectories are a great way to keep files organized, they can also get confusing unless you have some shorthand way of telling DOS where to find your files. Well, there is a way—A:\LETTERS represents the "path" to the "Letters" subdirectory.

Path

A path is set of directions for how to get somewhere or how to find a certain file. Let's say that all your letters to friends are in another subdirectory stemming from the "Letters" subdirectory.

A:\LETTERS\FRIENDS

If you are asked what path to find your letters to friends, you could answer with the above path. No prompt is shown above, only the path itself. It states that your letters to friends are in a subdirectory called Friends, which is in a subdirectory called "Letters," which is off the root directory of A. A path can be linked to a filename to give the exact location of the file; think of the **path and filename** *as the complete, more precise, name for any file.*

A:\LETTERS\FRIENDS\LAURA.LET

Above is the **path and filename** *of the file LAURA.LET in the subdirectory called "Friends," which is in the subdirectory "Letters," which is off the root of A.*

As we move on to DOS commands, paths become important for specifying the right files. Whenever a path is not specified in conjunction with a filename, DOS assumes that the path of the file is the same as the path of the default directory. We'll be looking at examples of this with the DOS commands we are about to learn.

DOS Commands

■ Internal Commands

The only thing your computer hardware knows how to do without the help of software is look for a file called COMMAND.COM on either your hard drive or your A drive depending on your system. COMMAND.COM is an important part of your DOS software because it takes command of the computer upon startup (this process is called "Booting" your computer). As COMMAND.COM takes over the computer, it puts some of the most useful DOS commands into memory so they will always be available. DOS commands that are put into memory upon startup are called internal commands. Here are the most common internal commands.

Dir

Dir will list all the files in a specified directory or subdirectory. The normal directory listing provides you with five columns of information. The first column is the filename, the second column is the extension, the third column tells us the size of the file, the last two columns report the date and time that the file was created.

A>DIR\where

DIR *is the DOS command that can be entered from any prompt.* **Where** *is the path of the directory or subdirectory you want to list.*

A>DIR

When no path is specified, DOS will assume you want to list the default directory. The above command will list the contents of the root directory of A. The contents would be displayed as shown in Figure #1.

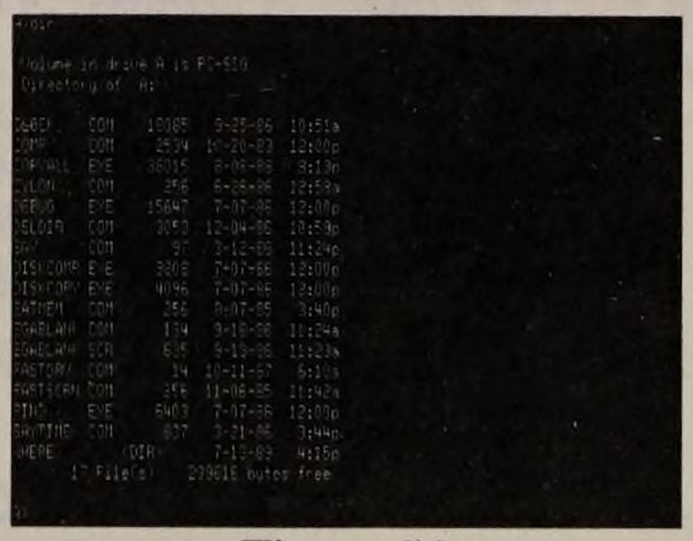


Figure #1

A>DIR /W

By adding the "switch" /W, we are requesting a **Wide** *display of the files. In other words, DOS will skip all other information and just list the filenames with extensions, five filenames across instead of stacked one on top of another as usual. You can see many more files in less space by using the /W switch. (Figure #2)*

The /W switch will help you look at more filenames on the screen at one time, but sometimes you need the rest of that file information. If your

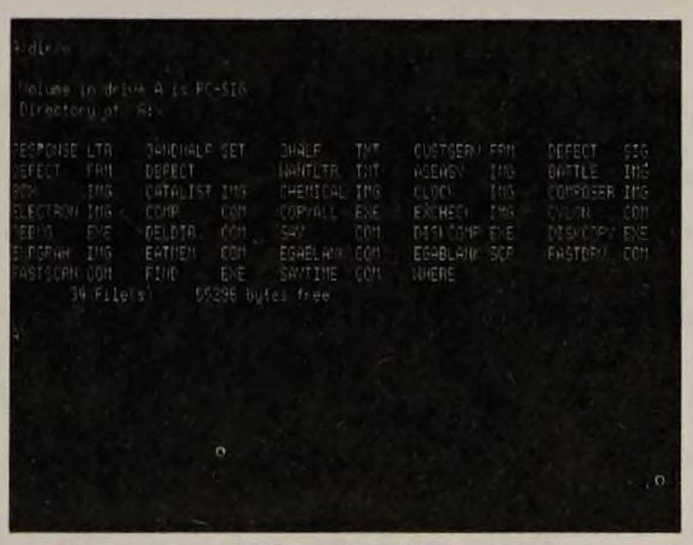


Figure #2

directory is so long that it just scrolls off the screen before you have a chance to view it, there is another switch, /**P**, that tells DOS to list all the files one screen at a time. DOS will give you one screen, then wait until you strike a key before listing the rest of the directory.

Copy

This is perhaps the most common and most powerful command you will use in DOS. The copy command allows you to move files from one place to another. Below is the most basic way to understand the proper syntax of the copy command and what information is required when using it.

A>COPY *what where*

COPY *is the DOS command and can be entered from any DOS prompt regardless of where the files you are copying reside.*

What *is the file you wish to copy. This can include the filename and extension. Or it can also be the drive and path of the file. If no path is indicated, DOS will assume that the file is in the default directory. If no path is specified and the file is not in the default directory, DOS will let you know with an error message telling you the file was not found.*

Where *is the final destination for the information you are copying. The destination can be as simple as a different drive letter, or as complex as a new filename under a new path. (The* **where** *of the copy command can even send files to the printer by specifying the destination as* **PRN**.*)*

A>COPY LAURA.LET B:

This simple example of the copy command entered from the A prompt copies the file LAURA.LET, from the root of A to the root of B. Since there is no path with the filename LAURA.LET, DOS simply assumes that LAURA.LET is in the default directory. We know that the default directory is A, as indicated by the DOS prompt.

A>COPY C:\LETTERS\LAURA.LET B:\PERSONAL\DOUGLASS.TXT

Here is a more complex example of how to use the copy command. The file LAURA.LET from the "Letters" subdirectory on the C drive, is to be copied to a file called DOUGLASS.TXT in a subdirectory called "Personal" that is on the B drive. The file will be identical despite its new name. In this example, the subdirectory "Personal" must already exist before the file DOUGLASS.TXT can be copied to it.

B>COPY DOUGLASS.TXT PRN

This use of the copy command will send the file DOUGLASS.TXT to the printer (abbreviated PRN) where it will be printed. A printout of a file is referred to as "hardcopy."

Wildcards: * and ?

If you have ten different files in the root directory of A and you want to copy them all from one place to another, it would take a while to copy them one at a time. DOS allows you to copy many files at once using **wildcards**. Wildcard characters can stand for anything—like the blank tiles in the board game Scrabble.

A>COPY LAURA.?ET B:

The wildcard ? stands for any single character. In the above example, files named LAURA.LET, LAURA.BET, LAURA.GET, or LAURA.VET would all be copied to B.

A>COPY *.LET B:

*The wildcard * stands for any series of characters, not just one wild character but as many as eight. So here DOS would look in the root directory of A for all the files that have the extension .LET as part of their filename. All those files would be copied to the root of B. LAURA.LET would be copied from A, but DOUGLASS.TXT would not because it ends in .TXT and not .LET.*

A>COPY *.* B:

In this example every file in the root directory of A would be copied to the root of B. All files fit the description when wildcards are given for both the filename and extension.

Wildcards are just as useful with other DOS commands. If you plan wisely when naming your files and give similar types of files similar names, then you will be able to use wildcards efficiently with all types of

DOS commands. Here's how wildcards can help you get only the information needed from a directory.

A>DIR C:\LETTERS*.LET

This use of the DOS command Dir will list all the files that have the extension .LET which are in the "Letters" subdirectory, which is found on drive C. This example shows that filename specifications can also be given when using the Dir command.

Del (delete) or Erase

The delete command, abbreviated Del, is the same command as Erase. Either can be used in the same way to get rid of files. We will use Del. You can use the Del command to rid yourself of old files, or delete files after you have copied them to another location.

A>DEL *what*

DEL *is the command that instructs DOS to get rid of whatever follows.* **What** *is the path and filename of the file you wish to delete.*

A>DEL LAURA.LET

The above command would delete the file LAURA.LET from the A drive.

Wildcards can be used with the delete command to get rid of a number of files simultaneously. Del cannot be used to get rid of subdirectories; RD (Remove Directory) is needed for deleting subdirectories.

A>DEL B:LAURA.*

Everything in the root directory of the B drive that has the filename LAURA, regardless of the extension, will be deleted. For example, files LAURA.LET, LAURA.TXT, LAURA.WKS, and even LAURA would all be deleted from this directory if they were there.

A>DEL *.*

You should be careful when using wildcards. This command will permanently erase everything that is on drive A.

Ren (rename)

The rename command, abbreviated Ren, is used to change the name of a file from one name to another. The rename command leaves behind only one file with a new name. (If you wish to create a second file of a different name with the same contents, you should use the copy command.)

A>REN *what newname*

The rename command is first followed by **what** *you want to rename. A path and filename can be used to clearly indicate the exact file you wish to rename. If only a filename is given, DOS will assume that the file is in the default directory. You must also provide the* **newname** *you would like the file changed to.*

Wildcards don't really help at all when it comes to renaming files. Each file in a directory or subdirectory must have a unique name. It wouldn't make sense to be able to change multiple files to the same name using wildcards.

A>REN LAURA.LET DOUGLASS.TXT

This use of the command will give LAURA.LET a new name, DOUGLASS.TXT. Renamed files will continue to reside in the same subdirectory.

■ External Commands

The internal commands explained above are all placed in memory when the computer is turned on. They are placed in memory because they are so commonly used; it's convenient to have them available at all times. External commands, on the other hand, are less frequently used DOS commands that are not placed in memory. There are many external commands and to put them all in RAM would waste too much of your computer's limited memory.

External commands, like internal commands, do something when they are called from a DOS prompt. But with any DOS command, your computer must be able to find it. Internal commands are easy to find, they are in memory; external commands are either on your DOS disk if you are using a floppy-based

system, or somewhere on your hard disk, if you have one. Whenever you attempt to execute an external DOS command (or any other program file for that matter) you must be certain that DOS can find the file by providing a path.

You can provide the path to the command file either by placing the proper path at the beginning of the command; by changing the default directory to the directory or subdirectory where the command file resides; or by including the subdirectory where the command file resides in your computer's "path."

A "Path" for Less Resistance

As described earlier, a path is the route to a file. It is perfectly adequate to provide paths for every file or command you work with, but DOS also allows you to program your system with one master path that can include several subdirectories. By **Setting a Path** you are giving your computer a list of different directories that are all to be treated as default directories.

If you don't understand the previous paragraph, don't worry. Setting a permanent path requires more information than we have presented. For our purposes we will assume that you are working with your DOS disk in drive A and that A is your default drive. DOS will always find the external command files it needs on that disk.

Format

All disks must be formatted before trying to write on them. A disk starts out as only a sheet of magnetic material with a hole in the middle. The disk drive can't find its way on all this open space. Formatting the disk is a way of putting up magnetic fences so the disk drive can tell one area from another. You are placing markers on the disk so the disk drive knows where one section of the disk ends and another begins.

Formatting a disk prepares the disk for information storage. That same process will also wipe out any information stored on a disk. Be careful not to format a disk that has valuable information on it.

A>FORMAT *drive*

Format is the DOS command, while **drive** *refers to a drive letter of the disk you want to format. This command does not have anything to do with files, so wildcards are irrelevant. Be aware that you can only format entire disks; individual subdirectories cannot be formatted.*

A>FORMAT B:

With this command you are asking to format the disk that is in drive B. DOS will then tell you to place the disk you want to format into drive B and press [ENTER]. Then DOS will proceed with formatting the disk.

There is one important "switch" you may want to use with the format command and that is the /S. This switch will place the DOS system files onto a disk as it formats it. The DOS system files include COMMAND.COM and other hidden files that are necessary to boot your computer. Once these files are on a disk, that disk can be used to start the computer, regardless of what else you put on that disk.

This is especially handy if you have a floppy-based system (no hard drive) and regularly work with one piece of software. Instead of fumbling with your DOS disk, then putting in your program disk, you could simply format a disk with all the system files on it using the /S switch and then copy all the program files to the same disk. You will have created one disk with both DOS and your favorite program on it. No more disk swapping.

A>FORMAT B:/S

This command will format the disk in drive B as in the earlier example, and it also will transfer all the system files to the newly formatted disk. That newly formatted disk then can be used as a boot disk.

Diskcopy

This external command does more than just copy files, it completely duplicates a disk. Not only file for file, but piece for piece. Everything about one disk is copied over to the other. The new disk doesn't even have to be reformatted when using the diskcopy command because diskcopy even clones the formatting of the original disk.

A>DISKCOPY *original newdisk*

The **Diskcopy** *command is followed by the drive letter of the original disk, then by the drive letter of the disk that is to become the clone. The two disks must be the same type of disk or DOS will give you an error message suggesting that the copy command is what you should be using.*

Diskcopy can accept the same drive letter for both the **original** and the **newdisk**. In such a case, DOS will prompt you to switch disks back and forth between the original and the newdisk as it replicates. If you only have one disk of a certain type, this command is a great way to make copies in one simple step.

A>DISKCOPY A: B:

This use of the command Diskcopy would duplicate the disk in A onto the disk in drive B. For this to work, the disk in A must be the same as the disk in B. Subdirectories cannot be Diskcopied to another subdirectory, only entire disks. Therefore, wildcards are irrelevant.

Using Shareware

Okay, you just received your first piece of PC-SIG shareware. You're very anxious to get it up and running, so let's get right to it. PC-SIG has spent considerable time and effort to make it easy for you to find instructions and start the program. Your time can be spent enjoying the program.

■ Making a Backup

Yes, you want to start the program right away, but there is one thing you should do first; make a backup copy. Some programs work by creating data files, or starting some sort of record keeping system linked to your clock, or any number of "self- altering" routines as soon as they are run. You may want to have an unaltered copy of the original program just in case you wish to start over. Besides, there is always the chance that you will accidentally delete or damage something on the disk while using it.

It's always safer to make a backup before you ever run the program. It's usually better to make a backup of a PC-SIG disk using the diskcopy command instead of the copy command. While PC-SIG disks don't contain any hidden files, sometimes they do contain subdirectories that wouldn't be copied with the simple **COPY *.*** command. Refer to the earlier section on DOS for how to use diskcopy.

Store the original in a safe place and only use the backup. This way, if your backup ever fails you can get the original and make a new copy.

■ What's on the Disk

You should start by listing all the files that are on the disk. Put the disk in drive A and list the directory.

A>DIR

Figure #3 is a directory from PC-SIG shareware disk #403, Computer Tutorial.

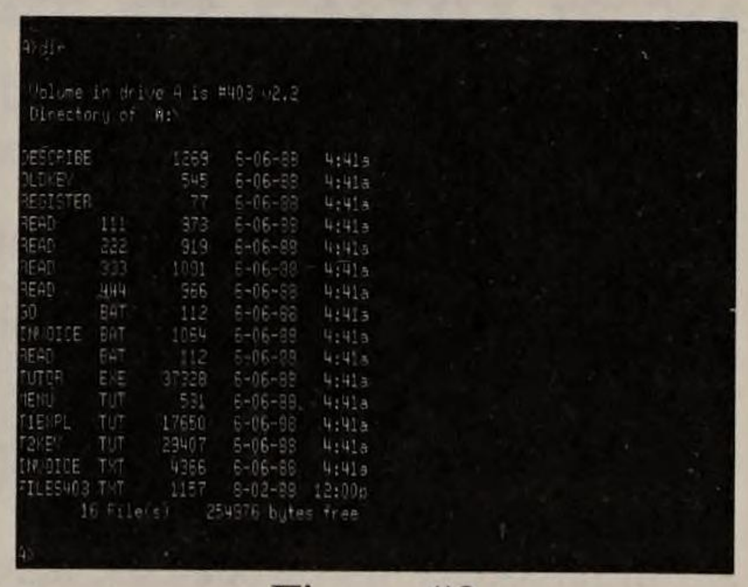


Figure #3

■ PC-SIG GO.BAT's

You'll notice in the above directory listing a file named GO.BAT. PC-SIG provides "GO.BAT's" as a quick and easy way to start nearly every disk in the PC-SIG Library. This file allows you to simply type GO at the DOS prompt and you'll instantly get instructions on printing the documentation and starting the program.

A>GO

A PC-SIG GO.BAT tells you how to start the program and how to print the documentation. (Figure #4) Then the GO.BAT returns you to the DOS prompt where you can do either.

GO.BAT's make PC-SIG Shareware simple to use right away, but a little closer look at what is on the disk may give you a better understanding of the program.

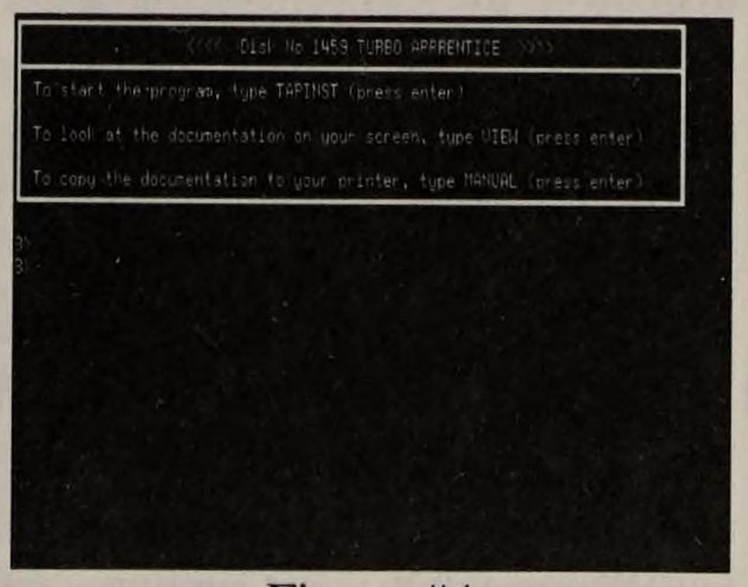


Figure #4

■ Extensions Tell All

When you are ready to dive into a PC-SIG Shareware disk, it is well worth the time to list the directory and look at the file extensions before starting the program. There are a few easily recognizable file extensions that software authors universally use to indicate certain types of files.

■ Text Files

Shareware programs are not distributed with printed documentation—it would be too expensive. But, shareware programs certainly do have documentation. Sometimes hundreds of pages worth. The documentation is in the form of text files.

Text files are simple files that can be sent to your printer so you can print your own documentation, or sent to your screen and read. They can also be called into most wordprocessors or text editors so you can browse through the text, even perform searches electronically.

Almost all text files will be listed in a directory in one of the following forms:

***.TXT**

***.DOC**

README

READ.ME

Files that match the formats above are meant to be read. The author has provided information and "documentation" (instruction manuals) in these types of files. This information will help you understand what the program is and how to use it.

In the directory listing of PC-SIG disk #403, you'll notice a file named FILES403.TXT. PC-SIG puts a file like this on every disk. Inside this file is a description of what programs are on the disk, as well as a listing of every file associated with the program. With this information you can be sure you have the program you need, and that you have the entire program.

If you wanted to print this or any other text file to your printer, you could use the copy command and name the device PRN (printer) as your destination.

```
A>COPY FILES403.TXT PRN
```

You also have the option of sending text files to your screen so you can read them without printing them. The DOS command Type will type the text to your screen.

```
A>TYPE FILES403.TXT
```

If you try the above command on any text file you'll find that the text does go to the screen, but will continue to scroll up and off the screen before you have a chance to read it. There is a way to freeze the screen while you read and, then start it moving again.

While holding down the control key (labeled **Ctrl** on your keyboard), press the **S** key. Pressing the two simultaneously will freeze the screen. Pressing any key will start the screen again. It can be stopped as many times as necessary. There is no way to scroll backward within DOS. Using the **Ctrl-C** combination instead of the **Ctrl-S** combination will break you out (stop the file from being typed to the screen) and return you to the DOS prompt.

There are other ways to use text files. Most wordprocessors (probably including the one you now use) can import text files and work with them in the same way they work with any letter you write. Features such as searching and browsing can be used with the text files found on PC-SIG Shareware disks. (See your wordprocessor manual for exact instructions on importing a DOS text, or ASCII text file.)

■ Command and Executable Files

Now that you've read about a program, you are ready to start working with it. There are two types of files that can be used to start a program: Command and Executable files. These are files that actually do something when their filename (without the extension) is typed at a DOS promt. You can tell these files because they end in two common extensions.

***.COM**

***.EXE**

You can tell right away that these are command and executable files by their extensions.

If you look once again at our directory listing for PC-SIG disk #403, you'll see one program file (a file that ends in .EXE) in the directory. Some programs may have more than one command or executable file in the directory. You can usually tell by the filename (TUTOR.COM) which one is the main program file.

A>TUTOR

By typing this command, which was noticed in the directory listing of PC-SIG disk #403, the program will start working. If you happen to type in a command filename that isn't the main program, don't worry, you'll probably just get an error message.

■ *Batch Files*

Like command files, a batch file gets something going. Batch files can be recognized in a directory listing because they always carry the file extension .BAT. The PC-SIG GO.BAT's are common examples of batch files.

A batch file is actually no more than a series of commands that are executed one right after another. Someone else puts the commands into a batch file and names the batch file. Then, when you execute the batch file by typing the batch file's name (without the .BAT extension) at a DOS prompt, all of the commands that someone else programmed will be executed one after another. It is a way of saving you the trouble of typing the same series of intricate commands over and over again.

A>GO

This command would execute the batch file named GO.BAT. Some software authors use batch files to start their programs instead of .EXE or .COM files. When you are looking at a directory listing to find the right command to start a program, be on the lookout for .BAT files as well as .COM and .EXE files.

You may want to learn how to make your own batch files, especially if you find yourself typing the same series of commands over and over again. (See your DOS manual for additional information.)

■ *Program Installation and Setup*

Most PC-SIG Shareware programs are ready to be started as soon as you get them. However, there are a few programs that require some setup or installation before they will work the way you want them to. Generally the PC-SIG GO.BAT program will alert you to required installation.

If you are working with a hard drive, you may want to install the program to your hard drive for faster and easier operation. Read the documentation to find out if there are any special installation instructions for running from a hard drive. With most programs you simply make a subdirectory on your hard drive and copy all the files of the program into that subdirectory. Then you can go into that subdirectory and start the program just as you would from floppy. (See subdirectories in the earlier section on DOS.)

■ *Troubleshooting*

If you put in your PC-SIG disk, type the right command, and nothing happens, there are a few things you can do to try to determine what is wrong.

You should be aware of system requirements before you use a program. Many programs in The PC-SIG Library require color graphics, over 256K memory, or a hard drive. If the program calls for such extras and your system doesn't have them, then the program may not run on your system. Don't worry, no program will damage a system that does not meet the system requirements, it just won't work.

Your computer may answer your command with an error message instead of starting the program. If your computer responds with "Bad command or file name," it is telling you that it could not find the file you requested. First, check your spelling of the command—close doesn't count. Next, make sure that the command file is in your default directory, or that the proper path is provided.

If your computer gives you an "Error reading drive A" message, you may have a bad disk. First, be sure the disk is inserted properly and the door on your disk drive is closed. Quite a few calls to our technical support staff are resolved by having the user turn the disk over and reinsert it. Once in a while, a disk is

defective. If everything else is working and your computer still can't read the disk, then send the disk back to PC-SIG with a letter and we'll send you a new copy.

If you have a problem that you can't solve, feel free to call our technical support line at (408)730-9291. PC-SIG technicians are especially helpful at getting you up and running with a new piece of software.

■ Programs for Beginners

The PC-SIG Library has many programs for beginners. Computer Tutorial, PC-SIG disk #403, is just one example of beginning tutorials. There are a number of different programs that will help you learn to use DOS commands.

If you want to learn BASIC, Pascal, C, or other programming languages, there are disk-based tutorials on all of these subjects. Interactive instruction is also available for popular software packages such as Lotus 1-2-3 and WordPerfect.

The PC-SIG Library also contains great applications such as spreadsheets, databases, wordprocessors, and utilities. Since they're shareware, you can try before you buy. If you are curious about a certain type of software, try it through PC-SIG.

Below is a list of programs recommended for beginners. Some are instructional, while others are recommended because they are easy for beginners to understand and use. Remember, the best way to learn about computers is to use them. Good Luck!

Galaxy — A wordprocessor.
AsEasyAs — A spreadsheet.
File Express — A database.
PC-Deskteam — A desktop organizer.
Fastbucks — A home checkbook management program.
TUTOR.COM — A computer introduction.
PC-Learn — A computer introduction.
PC-Chess — Chess on your computer.
Nethack — An adventure game.
PC-Fastype — A typing tutor.
Pushbutton — A menu program.
Amy's First Primer — Children's games.
Crossword Creator — Create crosswords on your computer.

THE ENCYCLOPEDIA OF SHAREWARE

A

1001 Topics for Composition 1001 TOPICS FOR COMPOSITION is an educational aid to help you choose a topic for writing English compositions and essays. The program has 1,358 topics and 21 different categories to choose from. See *Writing and Composition Aids*.
(PC-SIG Disk# 1088)

400 Attention, programmers —400 inspects the BIOS communications area and the DOS communications area and displays them in human- readable form. See *Utilities, System or Hardware*.
(PC-SIG Disk# 874)

4Print Print four pages of source code and program listings on a single page with your laser printer. For professional programmers and hackers. See *Printer Utilities, Laser*.
(PC-SIG Disk# 1079)

A86/D86 Assembler/DBugger An excellent assembler that can perform better than MASM. The debugger is included on the disk. See *Programming, Assembly*.
(PC-SIG Disk# 1111)

ABC Fun Keys Four games for children, ages 2-5, that teach the alphabet, numbers, and keyboard. See *Children's Programs (ages 2-10)*.
(PC-SIG Disk# 844)

Abstract A cataloging system for photographs, sound recordings, video tapes, motion pictures, etc. Can also be used for other database applications. See *Movie/VCR/Music Databases*.
(PC-SIG Disk# 1300)

Accordion Solitaire Play cards against the odds. The object is to end up with all your cards one stack by matching suits. See "Card Game Collection" listed under *Games, Cards*.

Accounting 101 Menu-driven accounting program for the home or small business. Many features including a comprehensive reporting function. See *Accounting, G/L, A/P, A/R, Payroll*.
(PC-SIG Disk# 1193)

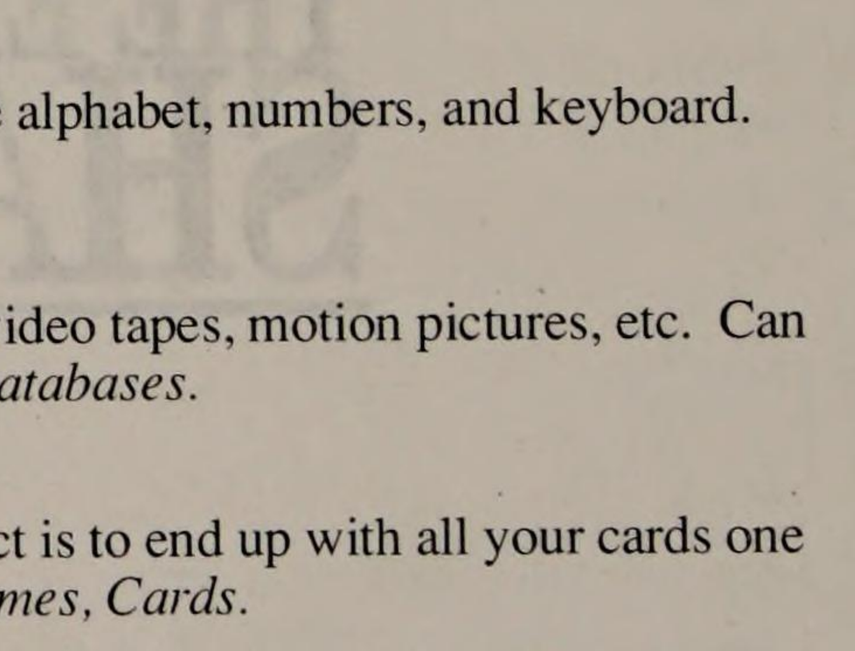
Accounting, Billing

■ Fast Invoice Writer

FAST INVOICE WRITER is just what the small businessman ordered. A winner for everyone from landlords to health professionals!

This program provides invoices, purchase orders, requisitions, or any document similar in format to an invoice. Compute taxes or bill by the hour — the program does all the calculations.

It produces a numbered, professional-looking document in about 60 seconds, and prints as many copies as you want. Then it prints your



Fast Invoice (PC-SIG Disk# 1147)

mailing labels and inserts for 10-inch window envelopes. It also prints your firm's name, address, and phone number on the invoice in big letters and handles all sorts of taxes and shipping charges.

(PC-SIG Disk# 1147)

Special Requirements: *None.*
Author Registration: *$10.00*

■ *Fast Statement Writer*

FAST STATEMENT WRITER creates billing statements for your business in a quick and orderly fashion.

In about 60 seconds, FAST STATEMENT WRITER turns out a numbered, professional- looking statement and prints as many copies as you want. Then it prints your mailing labels and inserts for 10-inch window envelopes. It also prints your firm's name, address and phone number on the statement in big letters and handles all sorts of taxes and shipping charges.

(PC-SIG Disk# 1216)

Special Requirements: *None.*
Author Registration: *$10.00*

■ *Invoicer, The*

Designed for companies that sell products to a number of accounts, THE INVOICER quickly cranks out custom invoices, statements, and overdue notices. It also tracks billings and sales activities, maintains a journal of your customers and a list of your company's stock items, and produces a variety of reports, including aging.

Invoices are automatically posted to accounts receivable (included with this program) using either the open-item or balance-forward system, and taxes and finance charges are calculated for you. An installation program makes it easy to put on your hard drive.

(PC-SIG Disk# 1348)

Special Requirements: *None.*
Author Registration: *$59.50*

■ *ManageX I*

MANAGEX I is based on the idea that it is best to send a statement to each client at some regular interval. Even when nothing is due from the client during that period, a statement should be sent, just to let the client know you're thinking of him.

The minimum period for which a client can be billed with MANAGEX I is one calendar month. Each bill includes all transactions from the beginning of the first month covered by the bill to the end of the last month covered.

(PC-SIG Disk# 888)

Special Requirements: *Hard drive.*
Author Registration: *$40.00*

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Accounting, Checkbook Management—Home

■ *Bank Account Manager*

BANK ACCOUNT MANAGER lets you keep track of all your bank accounts. It is intended for novice users who want to balance their checkbooks and/or want to keep track of up to 10 active accounts. Use special codes to describe different types of accounts, such as checking, interest, savings, etc.

BANK ACCOUNT MANAGER is menu-driven, and extensive documentation is provided for reference. You can get reports on account number, outstanding checks, type of transaction, and individual checks. A pop-up calculator is included to help in calculations.

(PC-SIG Disk#'s 1134, 1258)

Special Requirements: *None.*
Author Registration: *$10.00*

■ BANK STATEMENT TAMER

BANK STATEMENT TAMER gives you a menu-driven, headache-free way to balance your checkbook against your bank statement. Step-by-step, you are lead through the mechanics of how to arrive at the same ending balance as your bank — and thereby avoid overdrawn accounts or happily discover that the bank actually goofed! (It does happen.)

The program helps you verify balances from the previous month, find checks still out, and mark off paid checks, deposits, and other credits/debits. As you enter these values into the program, a running balance is calculated and displayed, showing any difference between your register balance and the adjusted bank statement balance. Also included is a feature to save you hours cleaning up your checkbook register. It searches through your checkbook entries and locates where you made any arithmetic error(s).

(PC-SIG Disk# 1435)

Special Requirements: *None.*
Author Registration: *None.*

■ Cashflow

CASHFLOW is an integrated, menu-driven, practical budgeting tool that can simplify home record keeping by calculating checks and balancing the checkbook.

You can hold back checks that you've written until payday comes around. CASHFLOW won't write checks for you but will track and calculate the ones you write. It will tell you what your bills are averaging and what percentage of your money goes for insurance, transportation, entertainment, etc.

(PC-SIG Disk# 887)

Special Requirements: *None.*
Author Registration: *None.*

■ CASHTRAC

CASHTRAC is a flexible personal finance management program designed to keep investment and checking records in a familiar checkbook register format, rather than a spreadsheet or accounting ledger format. The program has: 16 separate checking accounts to record all purchases (including major cash purchases), withdrawals, interest, etc.; an unpaid bills function (that nags when bills are due); numerous user-defined report features; and an investment and savings account tracker.

On registration, you receive an investment and checking account bar chart style graphing feature, in color, which is compatible with all monitor types. It can print graphs to disk in a format compatible with most wordprocessor text files. A check printing feature, configurable for any style check, and a data export/import feature, in either a delimited or non-delimited format, are also provided at registration along with an 8-1/2" x 11" bound manual.

(PC-SIG Disk# 164)

Special Requirements: *Two floppy drives.*
Author Registration: *$47.00*

■ Charge Account Manager

CHARGE ACCOUNT MANAGER provides an easy and enjoyable way to manage all of your charge account records. This program allows you to determine your charged expenses by category, and provides valuable accounting reports. Menus guide you through entering and maintaining charge account transactions. Each transaction can consist of charges, payments, or interest.

CHARGE ACCOUNT MANAGER provides many valuable reports. Reports can be generated for one category, charges, payments, interest, or all categories for a particular date or a range of dates. Full editing functions for all transaction fields are supported. The program is menu-driven, fully documented, and provides an on-line help facility.

CHARGE ACCOUNT MANAGER can support a maximum of 3000 transactions if the transaction data is kept on a separate disk, 2000 transactions if the program and the transaction data are on the same disk.

(PC-SIG Disk# 1167)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Checkbook Management

CHECKBOOK MANAGEMENT is a complete checkbook management system which takes the check register one step further while helping you to maintain your budget. It's good for personal and small business checking accounts.

Record all forms of checking account transactions, including bank charges, ATM deposits and withdrawals, and interest. Although CHECKBOOK MANAGEMENT doesn't write checks, you can reconcile bank statements and get a variety of reports on itemized transactions and periodic summaries. You can keep up to 3000 transactions on floppies, or an unlimited number if you use a hard disk.

Establish budget categories and assign each transaction item to a budget classification. This flexible program lets you change these designations as needed. At last, you'll be able to find out just where it all goes!

(PC-SIG Disk# 393)

Special Requirements: *Two floppy drives.*
Author Registration: *$25.00*

User Comments: *"Good checkbook manager, although limited to one checkbook/bank." "Great system. Works super. Excellent home money manager. Excellent documentation. I am satisfied with the product." "Excellent checkbook manager. Didn't think I needed one until I used it."*

■ Checkbook System

A simple system for maintaining bank account records for the home that provides the functions you need to keep your bank-related information accurate and up-to-date.

Track up to 10 bank accounts with 1000 entries, or transactions, each. Maintain ledger accounts, draw instant balances, bank statement reconciliations, and flexible search and sort options.

Convenient to use, this checkbook manager provides thorough recordkeeping for today's harried householder.

(PC-SIG Disk# 397)

Special Requirements: *Two floppy drives, CGA, and a printer.*
Author Registration: *$35.00*

■ CheckBooks & Budgets Plus

This disk has a full-featured checkbook database, check printing, and budgeting program which lets you keep track of your personal checking and savings accounts with ease. CHECKBOOKS & BUDGETS PLUS helps you automatically set aside a portion of your income into each different category in your budget. The budgeting section of the program is completely flexible letting you move budgeted funds from account to account at will.

Features include: an easy-to-use, windowed, menu-driven, checkbook and budgeting system; full multi-colored displays with pop-up windows for easy readability; optional printing of industry-standard checks, built-in help menu system; instant hot key listings at any time from anywhere in the program; data-input editing and error checking, up to 180 accounts (120 for expenses; 60 for income); and up to 192,000 check-register entries (limited by disk space available). It uses keyed index files for quick data storage and retrieval and provides multiple format listings to screen, printer, files or print spooler. It also makes financial reports, automatically balances your check register, quickly reconciles your check register with your monthly bank statement, and makes financial and loan calculations. The program can also exit to a DOS shell.

(PC-SIG Disk#'s 1126, 1197)

Special Requirements: *384K RAM.*
Author Registration: *$25.00*

■ Checkbooks and Budgets

CHECKBOOKS AND BUDGETS is the ideal household finance program for you, whether you live alone or with a family of 10 or more.

It is versatile, multi-featured, and is a universally useful program. It not only lets you keep close and careful track of your personal checking accounts, but also automatically sets aside portions of your income into different categories in your budget.

The budgeting portion of the program is completely flexible, and lets you move budgeted funds from account to account at will.

Features:

- Easy to use, windowed, menu-driven checkbook and budgeting system
- Optional printing of industry-standard checks
- Built-in help menu system
- Data input editing and error-checking
- Up to 180 accounts — 120 for expenses and 60 for income
- Up to 65,535 check register entries (limited by disk space)
- Keyed index files used for quick data storage and retrieval
- Multiple formatted listings to screen or printer
- Financial reports made, including bar graphs
- Automatic balancing
- Quick and easy bank statement reconciliation system
- Financial and loan calculations

(PC-SIG Disk# 735)

Special Requirements: *None.*
Author Registration: *$15.00*

■ CheckMate

Keep an accurate account of your personal finances — without all the hassle. It records and maintains your checking and charge transactions while giving you full editing capabilities at your fingertips. It sorts and prints reports, searches for selected items, helps you reconcile your statements, and even prints your checks for you. CHECKMATE can also print checks and reports in any of three pitches, and reports can be printed in two different layouts.

CHECKMATE is very intuitive. It has a user's guide and built-in, context-sensitive help menus.

(PC-SIG Disk# 784)

Special Requirements: *None.*
Author Registration: *$29.95*
➤***ASP member.***

■ CK System

Use this personal and household financial mangement program to keep a close eye on income and expenses. You worked hard to get it — know what you're doing with it!

CK tracks your cashflow and financial obligations in checkbook form and prints checks and many types of reports. Repeating checks can be printed each month by changing the check number and date and reprinting the checks. Keep an orderly and accurate check register/deposit record. Prepare a month-by-month year-end summary of all your income and expenses for up to nine separate accounts. Draw up bar charts on income/expenses. Detailed documentation is provided for the new user.

(PC-SIG Disk# 462)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Exacct

Monitor your finances and know where you are with EXACCT, a "no frills" aid to financial control.

EXACCT records and keeps a running total of all your financial transactions and allows for flagging groups of transactions to perform various operations. EXACCT is simple and easy to use, and can be used for checking/savings/credit accounts, business income and expenses, and loan payments.

(PC-SIG Disk# 1306)

Special Requirements: *None.*
Author Registration: *$10.00*

■ ExpressCheck

EXPRESSCHECK has a simple goal: to help you manage your checking accounts. Without EXPRESSCHECK, you can either guess at where you spent all your money, or you can spend long hours with a calculator. With EXPRESSCHECK, you can find out in just a few seconds.

How much do you spend each month on food, car payments, electricity, gas, and entertainment? How much have you given in tax-deductible donations? Every check and deposit can be recorded with various user-defined budget codes. This makes it possible for you to see at any time during the year where you stand in regard to your spending.

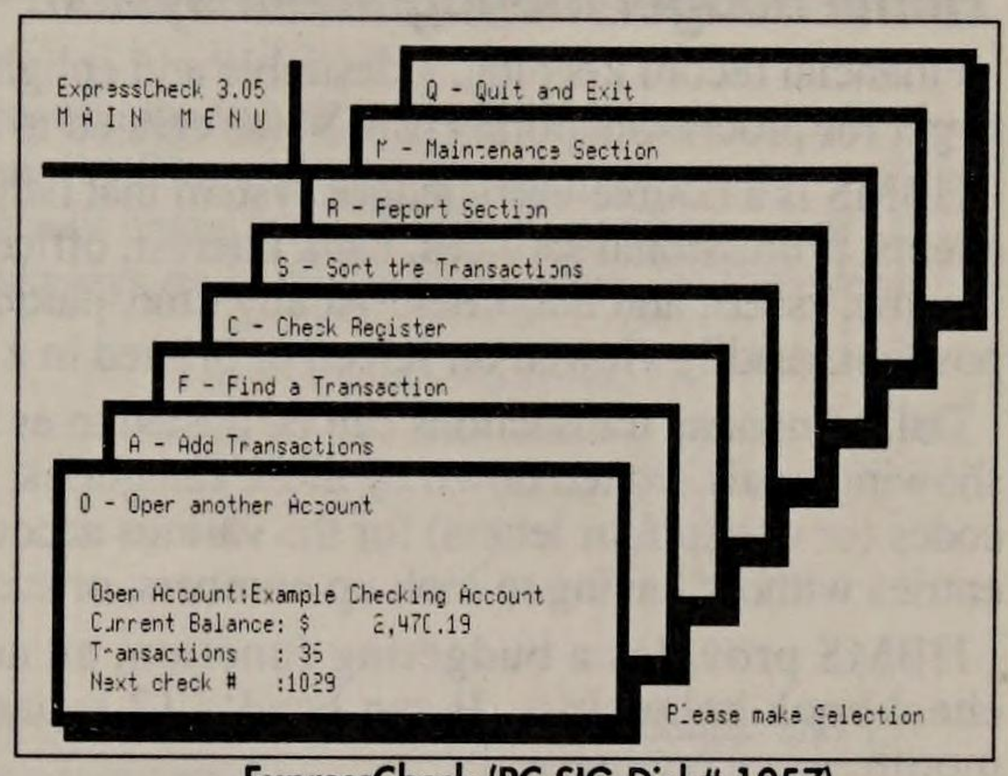
Entering checks and deposits is fast and enjoyable. You can enter recurring payments with two keystrokes. The screens appear the same as real checks, deposit slips, and check registers, so you'll find the program extremely easy to learn and use. You can define budget codes on the fly, and windows show all currently defined codes. EXPRESSCHECK even prints the checks for you on any kind of tractor-fed forms.

You can print predefined reports that give you monthly or year-to-date totals for any or all budget codes, a check register with running balance, all transactions that have not yet cleared the bank, checks or deposits that included certain budget codes, or all checks made out to certain payees. Many of the figures that go on your tax return are at your fingertips.

(PC-SIG Disk# 1057)

Special Requirements: *None.*

Author Registration: *$29.95*



ExpressCheck (PC-SIG Disk# 1057)

■ FamTRACK

FAMTRACK is an effective management tool designed to make the unpleasant task of family budgeting — if not fun — survivable and profitable. It will accommodate every type of financial transaction common to modern families.

Produce screen or printed records of monthly and year-to-date performance in 20 different budget categories for both husband and wife. It can handle as many as 20 separate financial accounts — checking, savings, bank cards, or charge accounts — and will reconcile each account at statement time.

Menu-driven FAMTRACK can automatically reconcile your checkbook at any time during the month or whenever bank statements are issued. A database of all financial transactions is maintained and there is an automatic year-end closing procedure and data storage.

Take real financial control and plan your future.

(PC-SIG Disk# 889)

Special Requirements: *None.*

Author Registration: *$19.95*

■ FastBucks

FASTBUCKS is a completely menu-driven home-finance program that is easy to understand and operate.

FASTBUCKS supports up to 25 accounts each in checking, savings, charge accounts, and a cash sheet. With each account you can update, list, reconcile, balance, or edit a record. List an account by month, year, or expense category. The program offers a graphic illustration of your expenses for a certain year, and shows your overall average expenditures.

Account listings can be displayed or printed. When listing a checking account and overall balance, the program will immediately show you if a check has bounced by displaying its line in inverse print. Each line gives the date, description, whether or not it is a credit or debit, and total balance to date.

Use the recursive budget model to create a workable family budget. Calculate total income, for both the pay period and the year, and compute your "disposable" income. Allot to your various expense categories or to your savings account.

There is a financial calculation section to calculate item depreciation, investments and loan information, plus a complete loan amortization generator.

Change initialization parameters for display type, printer, drive, data file path, and expense categories as desired. FASTBUCKS presently supports 141 printers and a user configuration, if your printer is not presently supported.

(PC-SIG Disk#'s 855, 1296)

Special Requirements: *Two floppy drives. Hard drive recommended.*
Author Registration: *$47.75*
➤***ASP member.***
User Comments: *"Excellent program for projecting personal savings plans. Sharp, impressive."*

■ Home Budget Management System

Financial record keeping, a desirable and enlightening habit to get into, is usually a dreaded task and a prime target for procrastination. HBMS was created to make it as painless as possible.

HBMS is a double-entry ledger system that helps you set up a chart of accounts (such as rent, medical costs, clients, professional services, bank interest, office expenses, etc.) into which you post (record) all your expenses, income, assets, and liabilities. At any time, particularly when figuring taxes, you can see your complete financial position, readily viewed on screen or printed in a variety of useful reports.

Daily financial transactions can be posted to as many as 254 accounts to generate monthly and yearly reports showing totals broken down by those categories, for instance, how much you spent on auto repair. You pick the codes (of one to four letters) for the various accounts, so it is relatively easy to remember them when posting entries without having to look up numbers, or such, as is required by some ledger systems.

HBMS provides a budgeting function, an audit trail (if a change is made to a past entry, it shows), and checkbook balancing. It can handle 12 separate checking accounts and up to 1140 transactions per month.

(PC-SIG Disk# 1302)

Special Requirements: *Printer.*
Author Registration: *$25.00*

■ Home Management II

HOME MANAGEMENT II (HMII) is five separate home/small business financial programs in one package:

- Budget: Checking account and finance manager
- Typewriter: Turns your computer printer into a no-frills typewriter
- Personal Budget Planning: Makes budget planning a breeze
- Quik Loan: Calculate monthly payments at various interest rates and repayment schedules
- Stock Broker: Track stock transactions and compare your portfolio action to the Dow Jones average

You don't need to be a CPA or a member of Mensa to control your household or small business finances. With five separate financial programs to choose from and 19 pages of well-written documentation, you simply take what you need and leave the rest.

Use HOME MANAGEMENT II and become a master of your finances!

(PC-SIG Disk# 1108)

Special Requirements: *None*
Author Registration: *$59.95*

■ Home Money Manager II

Enter transactions in up to 12 check registers, keep track of your balance and reconcile your bank statements. You can void, search, edit, reconcile, mark as cleared, and consolidate your recorded transactions. HMM will support split transactions and keep running totals for each account.

You'll know the amount of money you are spending in any of 84 categories. This program also provides a variety of reports that can help you organize your records at tax time or just report on where and how much money was spent and on what. On-line help screens are provided to guide you as you use the program.

(PC-SIG Disk#'s 837,838)

Special Requirements: *Printer is recommended.*
Author Registration: *$39.00*

■ Multi-Assistant

MULTI-ASSISTANT wants to be your personal executive assistant, and keep track of the myriad of necessary details in your hectic life! This PC whiz kid takes care of your finances, calculates lending figures, manages your telephone and mailing lists, inventories your investments, and keeps your calendar.

Manage your checking and charge accounts. MULTI-ASSISTANT prints checks for you, confirms checks/deposits (which it disburses into budget areas you select), finds and lists checks by category, and computes your account balance.

Track your personal investments, compute their investment value, and pull them up to view by name or number. Maintain multiple investment files with multiple categories per file. Track your debits, compute loan interest, and display and print payment schedules.

MULTI-ASSISTANT acts as your personal secretary, maintaining telephone and mailing lists, and multiple directories. It can print addresses from your keyboard input or from list files, onto labels or directly onto envelopes — even inserting the return address. It ensures that you will never forget another appointment or important project deadline, by keeping your calendar for you. It displays daily and weekly events or the events between any two dates you choose.

(PC-SIG Disk# 1423)

Special Requirements: *384K RAM.*
Author Registration: *$29.00 or $39.00.*

■ PC Account

PC ACCOUNT is a personal accounting system and checkbook ledger, preset for a total of 60 asset accounts and 15 checking, savings, or loan accounts. You can search for all transactions against an account, a user-defined code, an amount, a text string, or a check number. A full year's transactions in specific categories can be retrieved at tax time.

Reconcile your bank statement swiftly and double-check entries and totals in your checkbook. A unique feature is the ability to print on any personal check. PC ACCOUNT lets you create formats for 15 different checking accounts and specify the location of each data field on the check. Listings of accounts and transactions can be sent to the screen, printer, disk text file, or file that can be imported by Lotus 1-2-3.

(PC-SIG Disk# 941)

Special Requirements: *None.*
Author Registration: *$45.00*
➤***ASP member.***
User Comments: *"This checking account system was very helpful." "I quit bouncing checks."*

■ PC-Billmaster

PC-BILLMASTER manages your checkbook for you. It was written because the author needed a system that was easy to use, had a regular checkbook register type display, and could handle recurring payments.

Features:

- Familiar easy-to-use register type display
- Ability to enter items as posted (immediately balanced) or unposted (totaled into an unposted balance)
- Ability to merge multiple checkbooks
- Easy bank statement balancing
- Retrieval of items from all checkbooks on disk, with reports displayed, filed, or printed
- A search capability based on the contents of any field including a partial string search
- Up to 500 items per check register with an unlimited number of registers
- Up to 100 ledger account codes and titles

(PC-SIG Disk# 1021)

Special Requirements: *None.*
Author Registration: *$25.00*

■ PC-Flow

PC-FLOW, the personal cash-flow budgeting system, lets you forecast and evaluate your budget, emphasizing daily cash-flow. Each transaction can be designated as once-only, daily, weekly, or monthly. The entries can be exact or estimated. Record incoming and outgoing activities and sort and categorize by group.

Schedule future transactions within a user-defined time period. This approach to budgeting lets you observe the cash-flow situation as the transactions are scheduled to occur. Reports of starting resources, cash-flow, and transaction breakdown can be printed. Sort budget transactions by ID, frequency, or ending date.

(PC-SIG Disk# 957)

Special Requirements: *None.*
Author Registration: *$40.00*

■ PC-Money

PC-MONEY is a program designed to maintain personal, family, and small business financial and tax records. It includes modules that maintain and evaluate stock and bond portfolios, keep business records for a home business, and a module that consolidates tax information from personal and home business tax records and then estimates federal income tax liabilities.

PC-MONEY makes it possible to keep records for as many as nine bank accounts. It also maintains an annual tax account which includes up to 44 categories for easy consolidation and compilation of like items for income tax estimating or preparation. Entries such as checks or deposits that affect both a bank account and your tax account are made in a single entry. Bank and tax records can be displayed (and printed) a number of different ways. All operations are selected by menus that are easy to use. All account data is entered via fill-in forms with editing capabilities.

(PC-SIG Disk# 532)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Personal Ledger

PERSONAL LEDGER will help you keep track of all your financial activities.

Each transaction includes a check number or an entry number, a one-word description, payee/comment, amount, and date of the transaction. Entries can easily be sorted according to number or date. Automatic entry features are included to modify, delete, or search for previous entries. For personal sorting purposes, transactions may be grouped together in any of 10 user-defined categories, with each category having up to 20 descriptions.

(PC-SIG Disk# 1482)

Special Requirements: *CGA.*
Author Registration: *$25.00*

■ QCHECK3 - Checking Account Management System

QCHECK3 — Creative Resources's checking account management system is a menu-driven program, which is set up to minimize the errors, and ease reporting of data on any checking account, either personal or small-to medium-size business.

Menu selections include new check/charge entry, deposit entry, check cancellation, deposit cancellation, balance inquiry, screen listing of a portion or all of the check register file, listing of all uncanceled items, editing of any item, creation of a new register, a variety of reports on check and deposit activity, and a means of restarting the program for a different check register data file without the need to exit to the operating system.

QCHECK3 has the ability to export data to an electronic spreadsheet (PC-Calc, SuperCalc, Quattro, Lotus 1-2-3, etc.). It also provides for user-defined check memo code suggestions, user-defined function key macros for "pay to" entries, user-defined printer set-up strings, a handy calendar function for date look-up, and checks for adequate disk space prior to actions requiring more space.

(PC-SIG Disk#'s 968, 969)

Special Requirements: *320K RAM and two floppy drives.*
Author Registration: *$30.00*

■ Time and Money

A simple financial record keeping system for the home or small business. Finally, you can know just where all the money goes!

Design and keep a budget, create financial plans, track cash outlay, and analyze rent/buy options. Track bank accounts, manage your checkbook, and monitor your use of charge cards. Select menu options to project future plans and analyze specific financial alternatives.

Use TIME AND MONEY to help take control of your financial life!
(PC-SIG Disk# 251)
Special Requirements: *None.*
Author Registration: *$25.00*

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Accounting, Checkbook Management—Business

■ PC-Check

A menu-driven financial system for a small business or professional office, as well as for personal use. Why hire a bookkeeper when you can do it yourself?

PC-CHECK provides maintenance, with check-writing capabilities. It can handle multiple checkbooks and assign up to 78 payees and 100 ledger accounts. Sort data files, find payees, print checks, track income tax deductions, list data by month, quarter, payee, or ledger account. Automatically assign the ledger account number when an assigned payee is selected.

Let PC-CHECK take the mystery and drudgery out of financial control and put you back in charge — where you belong!
(PC-SIG Disk# 275)
Special Requirements: *Two floppy drives.*
Author Registration: *$35.00*
User Comments: *"It shaved an hour off the time it takes to balance my books."*

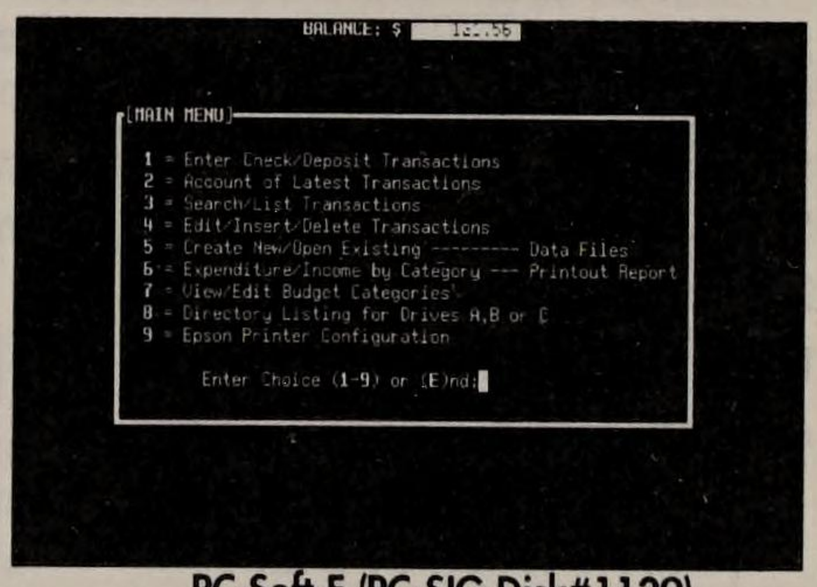
■ PC-Soft-E

PC-SOFT-E is a small business checkbook manager to make bank reconciling much faster and easier.

PC-SOFT-E provides the necessary information to get through any bank reconciliation statement. It can handle 1000 transactions in one file for the full year. An outstanding feature lets you configure a customized file to properly categorize all your transactions to your needs. This is a strong plus at tax time. It has full edit, insert, and delete features, and the current balance is posted at the top of the screen.

You can issue date-specified reports to a printer, expenditure reports by category, and total income/expenses reports. You can search and list transactions to screen only, or printer, by any whole or partial "issued to" name, by date, or by check number. Operation of the program is easy with clear cut instructions and menu selections.

(PC-SIG Disk# 1129)
Special Requirements: *None.*
Author Registration: *$25.00*



PC-Soft-E (PC-SIG Disk#1129)

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Accounting, Education

■ DAC Easy Tutor

Learn to use the DAC EASY accounting system, plus gain knowledge of basic bookkeeping with lessons that lead you step-by-step through the program. Non-interactive tutorial can either be printed out or read off the screen for quick reference using the included 'read' utility.

(PC-SIG Disk# 1294)
Special Requirements: *Printer.*
Author Registration: *$10.00*

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Accounting, G/L, A/P, A/R, Payroll

■ Accounting 101

ACCOUNTING 101 is an easy-to-use, menu-driven accounting program designed for the average home user or small business owner. With this program you can do basic accounting operations such as recording deposits, making journal entries, recording accounts payable, and closing your accounts at the end of each month and year. ACCOUNTING 101 automatically lists your income and expense totals for the year-to-date and the current month. This program allows you to change the accounting numbers and categories to suit your own financial situation.

ACCOUNTING 101 can print a variety of reports: a deposit journal, an accounting journal, a check journal, a trial balance, a balance sheet, your account numbers, an account activity report, and an income statement.

(PC-SIG Disk# 1193)

Special Requirements: *320K RAM and two floppy drives.*
Author Registration: *$25.00*

■ Budgetrak

BUDGETRAK is an accounting package for anyone who needs to track their budget and expenses more closely than is possible with an ordinary accounting system. Encumbrance accounting (the method used here) tracks obligations and planned expenses rather than actual expenses.

The system will handle up to 999 budget accounts. For simplicity, each month's transactions are stored on an individual file that can contain 1200 transactions. During the month you can look up account balances at any time instantly. You may print a report of the transactions entered to that point for the month or for any previous month. The report is sorted and summarized by company, department, and grand total.

When the actual expense is known, it is entered and the encumbrance amount and budget are updated. This gives a more accurate picture, for budgeting purposes, than waiting to record an actual expense. BUDGETRAK handles single and double-entry bookkeeping and has a built-in password system.

(PC-SIG Disk#'s 519, 520)

Special Requirements: *Two floppy drives. Hard drive recommended.*
Author Registration: *$49.00*
User Comments: *"Takes a bit of learning to use, but it's worth it." "Effective program for trading department budgets."*

■ C-A-S-E Accounting

C-A-S-E ACCOUNTING offers a system of accounting functions that meet the needs of most small to mid-sized businesses.

C-A-S-E maintains three journals: the general journal and two subsidiary journals, sales, and payroll. Sales are recorded in the sales journal because all sales transactions are basically similar. Payroll transactions are recorded in the payroll Journal because that provides confidentiality, if desired. Also, both kinds of transactions generate large numbers of detailed transactions with low dollar amounts, such as sales tax and deductions, that clutter up the general journal when entered individually. Totals for these two subsidiary journals are entered into the general journal whenever desired, usually at fixed accounting intervals.

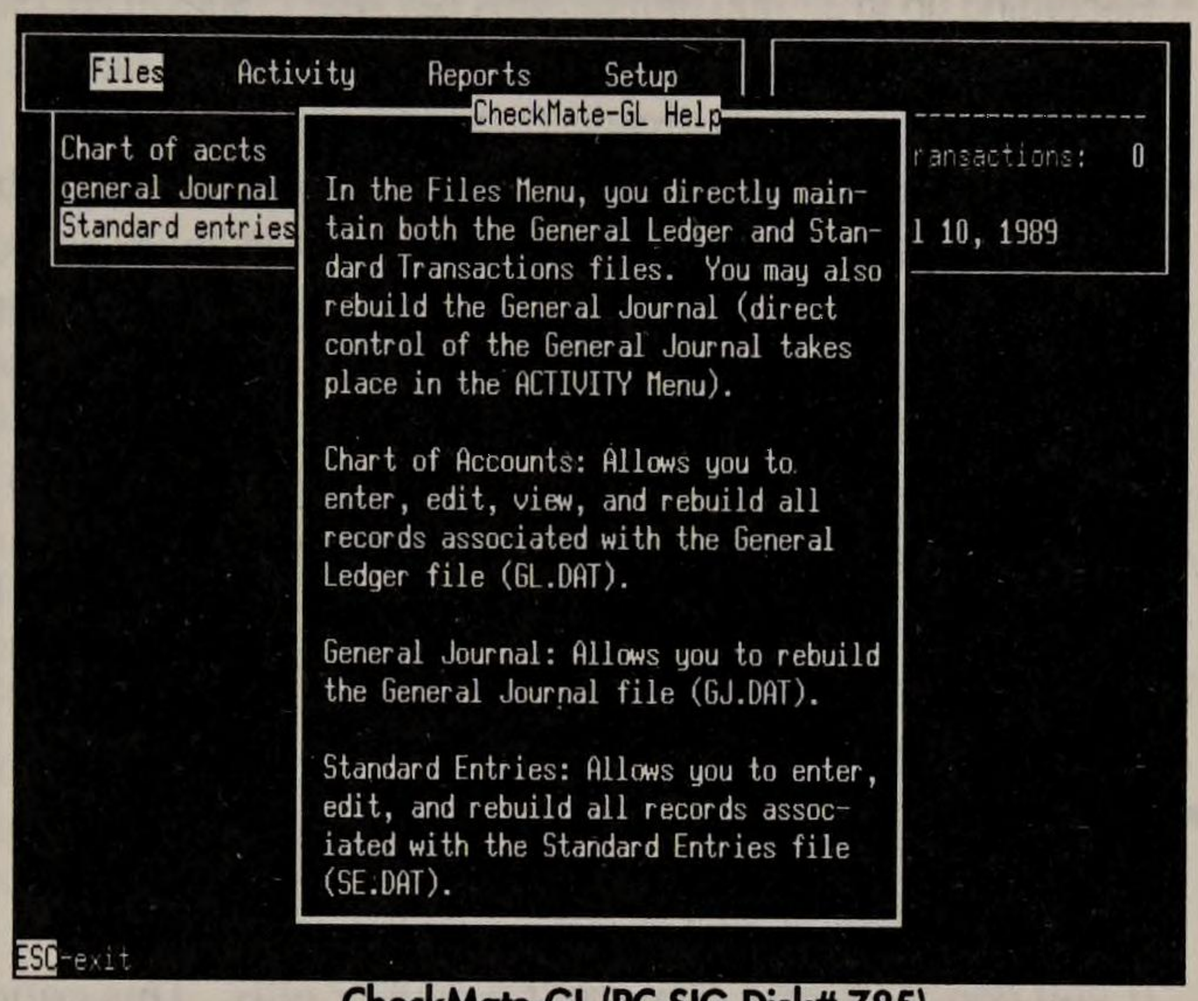
C-A-S-E also maintains files detailing the transactions for cases or projects (using the name that you use in your business), for invoices and credit sales, for employee pay and deductions, for payables, and for capital equipment. Whenever a transaction is entered through any of these systems, the appropriate information is fed to the others that are affected and to the appropriate journal. This information is readily available, either on the screen or in printed reports.

C-A-S-E produces both the standard accounting reports and the management reports that are most useful to knowledge firms: sales journal, by profit line and tax class, between any two dates; payroll journal, by employee by month, with deductions, between any two dates; general journal, between any two dates. Transactions in any general journal account between any two dates, with totals and balance. C-A-S- E financial histories that detail every transaction for a case, line item by line item. These use an easy-to-remember coding system that enables you to match billings against expenses and partner's time. The total expenses, billings, partner's time, disbursements from retainers, unpaid invoices, and balance are also shown. Accounts receivable, by invoice. Accounts payable, by commitment and by firm.

This is a straightforward and professional accounting program with every feature the small business will need.
(PC-SIG Disk#'s 1115, 1116)
Special Requirements: *640K RAM and two floppy drives.*
Author Registration: *$75.00*

■ CheckMate-GL

Do you own a small business, or are you thinking of starting one — only to be frightened by the thought of all the financial homework you know it entails? If you want to keep track of your expenses and manage your finances wisely, you need an accountant — or CHECKMATE-GL.



CheckMate-GL (PC-SIG Disk# 785)

CHECKMATE-GL is a powerful multiple-entry general ledger package that operates on the principles of classical accounting. CHECKMATE-GL has turned the complicated world of accounting into a user-friendly task, and even has an introduction to the basic principles of accounting for anyone unfamiliar with it.

CHECKMATE-GL was designed to integrate with Checkmate, but does operate independently. The two programs have a unique interface, letting Checkmate become, in effect, a cash disbursements journal for CHECKMATE-GL. What is special about this is you can operate your day-to-day finances with Checkmate, and not worry about accounting or expensing your checks except at specific times. In this way you can separate your day-to-day finances from more critical accounting data.

Home users will discover that you need only run CHECKMATE-GL once a week or so to quickly update your records. For businesses, personnel can work with Checkmate while you or your accounting professional can work exclusively with CHECKMATE-GL.

CHECKMATE-GL can support up to 256 accounts simultaneously, and has powerful search-and-filter routines for all databases and reports. CHECKMATE-GL also has a user-friendly pull-down and pop-up menu system with on-line help. Included in this menu system is a pop-up chart of accounts for quick reference, and a pop-up accountant's calculator with rolling tape. The system allows for 50 predefined journal transactions that you can call up at a keystroke. CHECKMATE-GL also has unique "quick-look" reports and flexible predefined reports with output control.

(PC-SIG Disk# 785)
Special Requirements: *Two floppy drives or a hard drive.*
Author Registration: *$39.95*
➤***ASP Member***

■ CPA-Ledger

A menu-driven general ledger and financial statement program designed for non-manufacturing businesses that offer products or services for sale.

Start your books and maintain them: post transactions; prepare unadjusted and post-closing trial balances and income statements; print a list of all postings for any period; search for previously entered transactions; and reconstruct specific G/L accounts and add new ones.

CPA-LEDGER has plenty of muscle to record your daily transactions. Any single general ledger entry can have up to 30 debits and 30 credits, with total values of up to $999,999,999.99. A very powerful system. Some knowledge of double-entry bookkeeping is necessary to operate this package.

(PC-SIG Disk#'s 466, 468)
Special Requirements: *A version of BASIC.*
Author Registration: *$45.00*

■ Finance Manager II

FINANCE MANAGER II is an extremely flexible and comprehensive accounting package for the non-professional accountant. It's an easy-to-use and very cost-efficient package for detailed home budgeting and/or the small business owner.

Outstanding features of FINANCE MANAGER II include:

- Maintaining up to 1999 accounts
- Recording up to 32,000 transactions per year (3800 on floppies)
- Providing listing of all transactions in specified period of time
- Tracing account activity against Chart of Account numbers
- Displaying net income (or net loss) for specific period requested
- Showing balance sheet for assets, liabilities, and equity accounts
- Providing cumulative or trended source/use-of-funds statement
- Showing budget variance on expenditures
- Listing a current Chart of Accounts to be run after changes
- Listing of budgeted income or expense accounts
- Reporting a trial balance on all accounts

(PC-SIG Disk# 151)

Special Requirements: *Two floppy drives.*
Author Registration: *$65.00*
➤ASP Member

■ Finance Mgr II Accounts Receivables

If you don't get paid, you can't pay your bills. This critical module lets you remain in control easily and effortlessly. You can have up to 2000 customers and send out optional pre-printed invoices and statements using balance-forward accounting. To allow correct interface with the income and other important accounts, the general ledger module, Finance Manager II (PC-SIG disk# 151) is required.

Important Features:

- Up to 2000 customers
- Integrated with G/L
- Finance Charges
- Miscellaneous debits/credits
- Custom message on statements
- Up to 32,000 transactions/year
- Post to G/L in detail or summary format
- Multiple G/L distribution
- Prior period adjustments allowed
- Post-dated transaction allowed
- Balance-forwarding accounting
- And much more

(PC-SIG Disk# 1107)

Special Requirements: *512K RAM, two floppy drives, and PC-SIG Disk# 151.*
Author Registration: *$30.00*
➤ASP Member

■ Freeway

This is a payroll management system built expressly for the European businessplace. FREEWAY PAYROLL programs can accommodate weekly, fortnightly, four weekly, and monthly pay frequencies. The programs provide:

- Payslip stationery (obtainable from the author)
- Bank Giro's and payment lists
- Cheque printing
- Internal pension schemes with fixed sum or percentage contributions
- Additional voluntary contributions
- Up to 99 departments each with a coin analysis and cost of payroll total

You may create your own headings for taxable and non-taxable additions to pay and post-tax deductions. You may produce lists of deductions under these headings. (Year-end documentation includes P35 and P60 forms, also obtainable from author.) The system accommodates statutory sick pay and password protection. The user may change tax rates and bandwidths, as well as earnings brackets.

Each employee may have attached to his record card, in addition to basic pay and hours, any regularly occuring payment or deduction. During entry of pay data, only these employees will have the variables entered. Calculation of pay and deductions is very flexible, permitting recalculation if necessary.

(PC-SIG Disk#'s 671, 672, 673)

Special Requirements: *Two floppy drives.*
Author Registration: *45 pounds*

■ Medlin Accounting

MEDLIN ACCOUNTING is a group of four companion accounting packages which, when used together, provide full-charge accounting services very suitable for the small to mid-sized business.

The first and main program, PC-GL, is a double-entry General Ledger module. It can be used by itself or with PC-AP — the Accounts Payable package. PC-AP is an Accounts Payable program that allows a maximum of 2000 vendors and 2000 invoices per accounting period. PC-AR is a menu-driven Accounts Receivable module and supports up to 2000 accounts, with up to 3000 charges and payments per period. PC-PR is the Payroll-Writing system. This version includes the 1989 Federal tax tables.

NOTE: All programs are run in RAM which accounts for their speed but also controls how many files can be supported at a time. Numbers of supported accounts quoted above are based on at least 512K RAM. Less RAM will allow the modules to run but will support a smaller number of accounts.

(PC-SIG Disk# 331)

Special Requirements: *Two floppy drives.*
Author Registration: *$35.00 for each of the four programs — PC-GL; PC-AP; PC-AR; PC-PR.*

■ Pay-Time Payroll System

For most of us, payday is one of the most important times of the week. Shouldn't you do your employees, and yourself, a favor by making this time one of the most error-free periods as well?

PAY-TIME figures out your company payroll and writes the paychecks for your employees. Several sample data files are included to familiarize you with the program. Store information for each employee, including the person's name, mailing address, employee ID, Social Security number, and payroll status. Once all the information for the tax files are entered, you can edit, display, add, delete, and print the records.

(PC-SIG Disk#'s 963, 1034)

Special Requirements: *Hard drive, printer, and NEBS 9024 check stock.*
Author Registration: *$25.00*

■ PC-Books

PC-BOOKS is a menu-driven general ledger program for small businesses, designed so you can convert a manual system to a computerized system with minimal effort.

Standard financial reports, including journals, balance sheets, income statements, and general ledgers, are simple to produce. The number of accounts and transactions are limited only by disk space and each transaction can have up to 14 accounts.

(PC-SIG Disk# 901)

Special Requirements: *Two floppy drives.*
Author Registration: *$30.00*

■ PC-General Ledger

PC-GENERAL LEDGER was written by a financial executive with over 25 years of experience in all areas of accounting, finance, and general management. The program makes it easy to add entries, maintaining charts of accounts, print entries and general ledger updates, as well as print general ledger and trial balances, financial statements, and month- and year-end closings. It handles up to five bank accounts and eight departments, or cost centers, and also prints checks.

The program is easy to use and can be set up and running in less than 15 minutes.

(PC-SIG Disk# 237)

Special Requirements: *None.*

Author Registration: *$50.00*

➤***ASP Member***

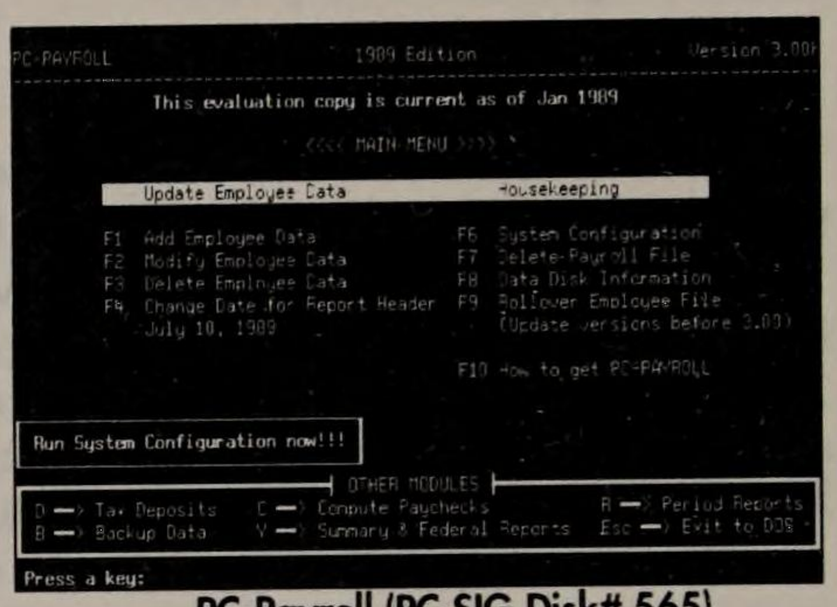
User Comments: *"I'm just beginning to see its capabilities." "Met all my requirements. Easy to learn." "Documentation is well written."*

■ PC-Payroll

PC-PAYROLL is a complete, menu-driven payroll system for moderate-sized companies.

It handles 80 employees on floppy-based systems and 200 employees on hard disk systems. PC-PAYROLL accepts hourly, salary, and tip wages, as well as bonuses and commissions. Federal, state and local taxes, FICA, pension and insurance withholding, and user-defined deductions are automatically computed.

Paychecks and stubs can be printed according to several predefined formats. A full range of reports are included: monthly, quarterly and year-to-date summaries, federal tax reports (W2, W3, 941), and a complete pay period detail. PC-PAYROLL is well organized, and appears to have as complete a list of facilities as commercial payroll systems.



PC-Payroll (PC-SIG Disk# 565)

(PC-SIG Disk#'s 565, 1019)

Special Requirements: *Two floppy drives.*

Author Registration: *$95.00*

User Comments: *"Excellent program! Handles our payroll with no problems." "Good buy for the average company." "Use it weekly. It works terrifically! Beginners need to work to master commands."*

■ Private Bookkeeper

PRIVATE BOOKKEEPER is a top-notch small business accounting package for non-CPAs and companies that don't want to hire a computer bookkeeper/operator. It is sophisticated enough to support all the necessary business bookkeeping functions such as payroll, sorting aging payables and receivables, bank reconciliations, trial balances, and so forth. You don't have all the report information that a CPA might provide, but this program realizes that for most small businesses you never need it. This program lets you use your own basic knowledge about your business to generate the accounting functions and information you need.

PRIVATE BOOKKEEPER is very easy to use and learn. Virtually all the commands are activated by menus, and there are 55 pages of first-rate documentation.

(PC-SIG Disk# 1089)

Special Requirements: *Printer.*

Author Registration: *$50.00*

■ Rosewood Journal

ROSEWOOD JOURNAL is a sales journal and accounts receivable program designed for small-to medium-sized businesses. It is especially suitable for businesses which record sales on serially numbered invoices. A variety of reports can be viewed or printed, including monthly and yearly sales, accounts receivable lists, and aged customer statements. ROSEWOOD JOURNAL is an extension to your general ledger program, not a replacement for it. ROSEWOOD JOURNAL also generates a special report which tells you the amounts and which accounts your sales, receipts, accounts receivable, and sales tax should be entered.

ROSEWOOD JOURNAL is completely menu-driven and performs error checking on all data entries.

(PC-SIG Disk# 1309)

Special Requirements: *None.*

Author Registration: *$38.00*

■ SBW

SYSTEM FOR BUSINESS AND THE WORKPLACE (SBW) is a multi-faceted integrated system that meets many common business needs. The system has five different functions and a separate module for each: customer information system, human resource (personnel) management, accounting, inventory, and production system. It also has an extensive documentation manual covering all five modules. The system is written in dBase III+ and you will need dBase III+ to run it. Also included is the dBase source code.

The customer file lets you maintain a complete customer database including purchase information and demographics about the customer. You can even print mailing labels or generate form letters. With the human resources management portion of the system you can maintain detailed personnel records on your employees. Previous employment history, personnel reports, and payroll are all supported. The accounting system is also designed for the small business. It handles both accounts payable and receivable. It maintains your chart of accounts and posts all expenses and income. Inventory management is for either manufactured goods or raw materials.

(PC-SIG Disk#'s 1094, 1095)

Special Requirements: *Printer and dBase III+.*
Author Registration: *$10.00*

■ Simple Bookkeeper

The SIMPLE BOOKKEEPER is an easy accounting program for small businesses. Keep track of business expenses in 40 categories for each month of the year. Deductible and non-deductible categories are available. You can also keep track of sales receipts on a daily basis.

Examine and produce an annual profit/loss analysis and a current and YTD expense summary for each month of the year. Get hardcopy of all purchases, sales, expense, and profit summaries. Enter and edit up to 200 expenditures each month and 99 sales every day for each month.

(PC-SIG Disk# 860)

Special Requirements: *None.*
Author Registration: *$15.00*

■ SOAR

SOAR (Service-Oriented Accounts Receivables) helps you simplify customer billing, generate meaningful management reports and quickly get a snapshot of your business income and its sources. The program is menu-driven and easy to operate. Some of SOAR's major features include:

- Simplified billing for businesses that provide services as well as products; three billing formats are supported — two industry-standard general-purpose forms, as well as a "generic" form
- Charges based on fixed-item (inventory item), services, hourly rates,fixed-cost, or variable-cost
- Customers assigned a late-charge rate so you can give special treatment to good customers; automatic billing of customers with fixed-rate service or support contracts; customer inquiries are rapid and provide an instant history of the customer's activities
- Mailing lists are generated from the customer database and labels can be prepared for customers billed, all customers, active customers, inactive customers, or customers with past-due balances
- A tax-exempt status for dealing with government agencies or wholesale transactions; taxable and non-taxable sales are automatically stored and reported
- 22 categories to summarize your business activity
- Powerful reporting of specific areas of income; data files can be merged to have your business reported in quarters or other increments
- Easy identification of items or services that are profitable for your business
- Reports sorted by up to five keys to give you the specific information you need for your business and directing your areas of effort

SOAR does not teach accounting rules and assumes a certain level of expertise in accepted accounting procedures and protocols.

(PC-SIG Disk#'s 812, 813, 1185)

Special Requirements: *Two floppy drives.*
Author Registration: *$49.00*

■ StarBooks

STARBOOKS generates purchase orders, maintains stock levels based on sales rates, tracks and automatically updates your inventory, invoices and bills your customers and tracks their accounts, keeps tabs on backorders, and tracks sales trends and profits on an item-by-item basis. It's a big, smart comprehensive program — and yet is surprisingly simple to run.

STARBOOKS does a lot more than similar programs costing over a thousand dollars. Set your proper inventory levels and STARBOOKS, through computer generated SKU numbers, watches sales to make sure you order soon enough, never forgetting to include backorders. It generates purchase orders by supplier and can automatically update stock levels. It prints out stock lists for inventories and lets you identify your shrinkage.

The accounts receivable menu lets you generate invoices and statements which list past-due invoices. Posting payments takes seconds. While the program does not age accounts, it generates a customer list with account statuses. It watches backorders and lets you split payments among invoices. If a customer phones in a query, you can bring up the account in seconds. Almost unique to the program is its ability to generate long invoices with hundreds of items printed on it.

Note: Read the documentation carefully. This program has its own way of doing things and isn't very forgiving of experimental key pressing.

(PC-SIG Disk# 1250)

Special Requirements: *None.*
Author Registration: *$29.95*

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Accounting, Inventory Control

■ Inventory Sort

Keep track of your inventory and other applicable information you need to analyze your inventory position.

INVENTORY SORT can handle multiple inventory lists which can have up to 1000 part types in each. Maintain five fields of information per part type — including part number, part name, quantity, location, and cost. Sort records alphabetically, numerically, or by location. Update and delete part types, and get a formatted printout of the inventory list.

(PC-SIG Disk# 961)

Special Requirements: *A version of Basic.*
Author Registration: *$25.00*

■ Pricebook, The

THE PRICEBOOK acts as a centralized item pricing log so you and your employees can instantly know what you are paying for any of the hundreds to thousands of items you carry. It also generates price quotes, acknowledgements, purchase orders, and invoices. Each of these forms will have the prices automatically entered, extended and totaled, eliminating manual data entry and math errors.

(PC-SIG Disk#'s 1373, 1374)

Special Requirements: *None.*
Author Registration: *$99.95*

■ Stock Inventory Control

STOCK was created specifically for maintaining inventory control for businesses with a standard list of inventory items with specific order levels. (Businesses that stock one-of-a-kind items can use STOCK, but they must ignore references to order levels and year-to-date sales for each item.)

Items are listed as individual records in the database and each item has an order level. The program was written in dBase III+, compiled and runs directly from DOS. For those who know dBase, and like to tinker, the source code is provided.

(PC-SIG Disk# 958)

Special Requirements: *None.*
Author Registration: *None.*

User Comments: *"Good basic inventory program for a small company." "The program stores inventory information very well."*

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Accounting, Job Costing, Bill of Materials

■ Cost Effective Tracking System

Are you having a hard time figuring the cost of that construction job? COST EFFECTIVE is here to help you out. COST EFFECTIVE keeps track of your raw materials and their prices. When you have a job to do, you tell the program what you will be needing and COST EFFECTIVE will tell you what the price will be.

Raw materials are never going to be the same price from day to day, this is why COST EFFECTIVE also allows you to enter new prices for your raw materials and get a new estimate. Reports like raw materials listings and prices can be printed from the program.

The program is fully menu-driven and there are help screens available at any point in the program. You will find COST EFFECTIVE a great asset to your company if raw materials are a part of your productions.

(PC-SIG Disk# 845)

Special Requirements: *512K RAM. Hard drive recommended.*
Author Registration: *$15.00*

■ Job Cost

JOB COST was made for the person who is responsible for monitoring and keeping under control costs on complex, expensive projects.

With this system you can:

- Set up multiple jobs each with its own unique set of cost centers
- Establish budget controls for each cost center for labor, material, and other expenses
- Edit and post transaction cost items to each cost center
- Post estimates of percent completions for each budget item
- Set up budgets for up to 99 unique change orders per job

JOB COST then provides you with cost variances, projected profit/loss at the detail budget level, cost center level, and total job. As expenses are posted, the overall job status is updated keeping you informed of balance of funds available and projected profit/loss for the job's original estimate and change orders. You are provided concise reports for distribution to your client, foreman, and sub-contractors.

At the end of the job, after all reporting has been performed, you can back up the completed job to a floppy disk for storage, delete the job from your active job database, and if necessary restore the job from backup for recording additional cost information after job was completed. New jobs can be set up from existing job formats, requiring only the entering of the new job's unique budget information.

All functions are menu driven with on screen help.

(PC-SIG Disk# 1230)

Special Requirements: *380K RAM and a 132 column printer.*
Author Registration: *$45.00*

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Accounting, Purchase Orders

■ Purchase Order System

PURCHASE ORDER SYSTEM is great for almost any kind of business. It makes it easy to enter and print purchase orders, and keep a record of all vendors. You can enter a list of vendors with addresses and phone numbers, which you can later browse, edit, or delete. And you can print a vendor master list.

When entering a purchase order, the screen is divided into several columns for the account number, quantity, unit, item description, and price. Outstanding purchase transactions can be printed by account, vendor, or purchase order. Purchases received can be cleared immediately, and if a purchase transaction is accidentally cleared it can be uncleared for recall.

(PC-SIG Disk# 741)

Special Requirements: *Two floppy drives.*
Author Registration: *$45.00*
User Comments: *"Very unique." "Takes just minutes to have it up and running. It's been very useful in my business."*

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Accounting, Tax Preparation See *Tax Preparation.*

Accounting, Time-Billing Management

■ BillPower Plus

BILLPOWER is an extremely powerful time-keeping, billing, and bookkeeping system designed specifically for small firms.

It's designed to help attorneys, accountants, and other professionals keep precise records and bill regularly. BILLPOWER tracks time worked on professional matters and calculates the amount owed by each client. It also keeps up with receipts and disbursements, and it maintains such accounts, allowing you to carry out simple bookkeeping functions. Perhaps most importantly, it automatically compiles service, disbursement, and receipt transactions for each client into monthly bills.

BILLPOWER offers a degree of integration not found in other time and billing programs. It can simultaneously update affected G/L accounts (as well as a client's balance and aged receivables) at the time a disbursement or receipt is entered. This "real time" approach to bookkeeping saves you the time you would otherwise spend making duplicate G/L entries, posting transactions, and/or transferring files from one program to another.

BILLPOWER is designed as a unique "free entry" system. You can open accounts at will, any time you want. You can correct nearly any entry made at any time in the past. Also unique is BILLPOWER's ability to re-prepare bills. Transaction data is not destroyed when bills are prepared, therefore it is easy to re-prepare bills that may be even several months old. BILLPOWER can handle any combination of the following: 15 timekeepers/employees (partners, secretaries, and others), 4000 cases, 4000 accounts, and 8000 transaction entries per month (services, disbursements, etc.).

(PC-SIG Disk#'s 1168, 1169)

Special Requirements: *512K RAM and a hard drive.*
Author Registration: *$150.00*
User Comments: *"Powerful. Well worth registering with the author. A genuine bargain."*

■ dTime-Keeper

dTIME-KEEPER is designed to increase effectiveness in the client billing process, by providing current accounts receivable totals, past due account aging, and present maximum clarity in the client's statement. The system makes provision for adding state sales tax to taxable items billed to the client.

We believe the most unique features of dTIME-KEEPER are accounting for billing time by the minute, the "extended description lines" of the billing/payments description, multiple time-keepers (employees) and automatic (recurrent) billing of standard monthly or quarterly charges to a client, such as a retainer, monthly, or quarterly bookkeeping services. dTIME-KEEPER is completely menu-driven (multiple choice operation) and prompts the operator for all required entries.

Extensive error trapping is incorporated in the data input to assure maximum accuracy of the information available to you. The billing code description is 35 characters and spaces, about average for this type of information, and with "extended description lines," you may expand this description by up to 99 lines of 60 characters and spaces.

(PC-SIG Disk#'s 909, 910)

Special Requirements: *400K RAM, hard drive, and a printer.*
Author Registration: *$149.00*

■ Mr. Bill

Money in the bank — a lovely phrase. Money owed to your company could be money in YOUR bank — if you collect it. MR. BILL does almost everything needed for your small to medium-sized firm to bird-dog bills and increase collections with a minimum of labor and losses.

Highly flexible, MR. BILL handles taxes and charges of every sort. It automatically updates and sends client bills out monthly, prints your letterhead, and up to a 30-line message. You can charge different customers different rates for the same thing. Each file can have 16,000 entries. Get the client's name, address, phone number, and current balance from the operating system in less than four seconds.

Prepare itemized invoices/bills and generate a bevy of summary and in-depth reports including account aging and an excellent audit trail. The 28-page manual is adequate for experienced clerks.

(PC-SIG Disk#'s 469, 470)

Special Requirements: *None.*

Author Registration: *$30.00*

User Comments: *"Now trying customer billing with good results." "I've cut down on my late payers."*

■ Time Tracker

Do you have to keep track of the amount of work you do for others? Are you a contractor, lawyer, consultant, or other hourly professional? Here's an easy way for your to track your working hours and simplify the billing process.

TIME TRACKER keeps track of what you do for your clients and the time it takes to complete it. It keeps track of all of your accounts and bills them. It also records the receipt of money from your billings.

Since your accounts receivable is taken care of, the only thing you have to worry about is keeping track of your expenses. Moreover, it will let you know where you stand in terms of accounts receivable, income, and unbilled hours, at any time.

(PC-SIG Disk#'s 825, 1024)

Special Requirements: *320K RAM and two floppy drives.*

Author Registration: *$25.00*

User Comments: *"Easy to use. It does everything I need simply." "Time Traker has saved me many hours of work. I like the ease of operation and the thoroughness of it."*

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Accounts Payable See *Accounting, G/L, A/P, A/R, Payroll.*

Accounts Receivable See *Accounting, G/L, A/P, A/R, Payroll.*

ACM Volumes 1-5 FORTRAN routines for solving various scientific and engineering problems: linear equation solvers, function integration, and curve- fitting. See Programming, FORTRAN.

(PC-SIG Disk#'s 1008, 1009, 1010, 1011)

Address Book ADDRESS BOOK is an efficient way to keep the names, addresses, and phone numbers of your customers and vendors in good order and up-to-date. See *Mail Lists, Address Managers, and Telephone Organizers.*

(PC-SIG Disk# 988)

Address Manager For anyone wanting to organize personal contacts and lists, address envelopes, or print labels. Each database can hold up to 600 entries. See *Mail Lists, Address Managers, and Telephone Organizers.*

(PC-SIG Disk# 218)

Address Managers See *Mail Lists, Address Managers, and Telephone Organizers.*

Adult Trivia and Games See *Entertainment, General.*

Advanced Menu Many menu programs use .BAT files to execute programs and DOS commands. ADVANCED MENU uses command files for password protection and conditional command execution and to enter DOS commands and finish an uncompleted command. See *Menu Programs.*

(PC-SIG Disk# 1050)

Adventure Addiction Five text adventure games for the beginning adventurer. Fight the Nazis, discover a lost city, fight the evil overlord and more. See *Games, Adventure and Text.*

(PC-SIG Disk# 826)

Adventure Game Bulletin Board Systems See *Games, Adventure and Text.*

Adventure Game Toolkit Create complex text adventure games. Define specific vocabularies and manipulate 100 objects in 200 locations. Complete professional documentation. See *Games, Adventure and Text.*
(PC-SIG Disk#'s 1231, 1232)

Adventures of Captain Comic A fast-moving arcade game with high-quality color graphics. The Captain's job is to recover three treasures of the planet Omsoc that were stolen and hidden on the remote world of Tambi. Ages 7-adult. See *Games, Arcade.*
(PC-SIG Disk# 1450)

Adventureware A handful of five text adventure games ranging from a mystery adventure to a horror story. These will occupy you for days. See *Games, Adventure and Text.*
(PC-SIG Disk# 453)

Aeius Gradebook Teachers and administrators — keep grade records of virtually any kind! See *Teaching, Grading Systems and Record Keeping.*
(PC-SIG Disk# 1239)

Agriculture

■ Agriculture Assortment

More tools for today's farmer!

The Department of Agriculture at the University of Minnesota has prepared this wide-ranging collection of BASIC language decision aids for farm management.

Several conversion programs and calculators help the busy farmer with yield analysis, gestation dates, harvest and storage costs, probable feed requirements, maximum bid price for farmland, and more. Applicable information for small to large-sized farms help you through the intricacies of farm management problems and opportunities.
(PC-SIG Disk# 459)

Special Requirements: *Two disk drives, CGA, and a version of BASIC.*
Author Registration: *None.*

File Descriptions:

AUTOEXEC	BAT	Automatic instructions to read this file.
ACRSCALC	BAS	Analysis of federal depreciation computations.
FARMBID	BAS	Determines the maximum bid price for land or a farm.
DRYSTORE	BAS	Analysis of harvest and storage cost & alternatives.
DATECALC	BAS	Computes future (gestation) dates & calendars.
BESTCROP	BAS	Price & yield analysis of crop choices (equal-margin).
FEEDPIGS	BAS	Should I feed out a batch of feeder pigs?
MENU	BAS	Menu program for BASIC pgms on this disk.
FEEDVALU	BAS	Given corn & SBM values, what's a feed worth?
FEEDSILO	BAS	Calculates likely dairy feed in a silo given feed rate.
STEERBID	BAS	Calculates equivalent FOB prices for fat steers at farm.
SOWINDEX	BAS	Determines a sow index, relative to the group.
SDIR	COM	2 column directory.
SCROLLCK	COM	Scroll lock - control with shift keys.
RUN	BAT	Batch file requests date, loads BASICA & starts MINNAIDS.
README	DOC	Documentation file.
READ	BAT	Batch file to provide instructions for SCROLLCK.COM.
PEARSON	BAS	Balances 1 ration nutrient from 2 feed sources.
USERDOCS	BAS	Explains how to make hardcopy documentation of MINNAIDS.
ULOGO	BAS	University of Minnesota logo - START HERE.
TIMEC	COM	Help program.

■ Agriculture Programs from Ridgetown College

From Ridgetown College of Ontario comes this fine collection of farm management tools. Besides a handy metric conversion program, highlights include:

LUMBER — Welcome to the world of computer carpentry. Enter your basic design and constraints, if any. It produces reliable estimates of all the construction materials you will need for your project and keep a running total of the costs.

USLE — Deal with the problem of soil loss evaluation on irregular slopes with this program. Get a fast, accurate estimate of such soil loss. As many, if not most, fields have irregular slopes, the farmer/conservation specialist can benefit from this aid.

WOODHEAT — Explore the economics of using wood as a primary source of heating.

The documentation also includes the code for Hewlett-Packard (HP-41c) calculators.

(PC-SIG Disk# 461)

Special Requirements: *None.*

Author Registration: *None.*

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Agriculture Assortment A wide-ranging collection of aids for farm management. See *Agriculture.*
(PC-SIG Disk# 459)

Agriculture Programs from Ridgetown College A group of farm management programs developed at Ridgetown College of Ontario. See *Agriculture.*
(PC-SIG Disk# 461)

AI (Artificial Intelligence) Computers are pretty dumb but programmers try to make them think like people. That's called artificial intelligence. For instance, programmers create "expert systems" software that allows a computer to make a decision or draw a conclusion based on new information it is given and how it was programmed to "think" about that information. All AI programs in the PC-SIG Library are actually classified as expert sytems which is a branch of AI. For programs see *Artificial Intelligence.*

Airtrax You have the nerve-racking occupation of air traffic controller. See how many planes you can safely direct onto the runway before one of them crashes. See "Game Series 21" listed under Games, Arcade.

Alchemy Desktop Publishing Utilities Import charts, graphs, and pictures, even MacPaint! Hack unwanted characters out of your soft fonts, for greater speed. Create custom-width tables. Download to floppies with ease. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1360)

Algebra See *Math and Geometry Programs.*

Algebrax Cringe no more when menaced by that ominous-looking algebra problem! You now have ALGEBRAX to help you overcome your fear of mathematics. See *Math and Geometry Programs.*
(PC-SIG Disk# 1456)

Algorithm This is an optional operating system file that controls your screen display. For instance, it can tell your computer when to blank your screen or clear it.

Alt Memory-resident file manager and desktop utilities that combine most of the features of Sidekick, Superkey, Norton Utilities, and Software Carousel. See *Desktop Organizers.*
(PC-SIG Disk# 1189)

ALTER A valuable utility to change your file attributes, i.e. hidden files, read-only files, etc. See "Hard Disk Utilities" listed under *Hard Drive Utilities.*

AM-Tax Here's help in doing your federal tax return; 1040 and other schedules. Let's you try "what-if" strategies! See *Tax Preparation.*
(PC-SIG Disk# 479)

Amortization Calculators See *Loan Calculators.*

Amortization Table Calculate your monthly payments on loans up to 40 years. See *Loan Calculators.* (PC-SIG Disk# 1027)

Ample Notice A calendar and pop-up alarm clock that can help keep your day under control. Also included is Outside, for dashing off an address on an envelope on a dot-matrix printer. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 872)

Amy's First Primer Children, ages 3-8, can play six games to practice the alphabet, numbers, shapes, and problem-solving. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 646)

Amy's First Primer jr Children, ages 3-8, can play six games to practice the alphabet, numbers, shapes, and problem-solving. Specially adapted for the PCjr. See *PCjr.*
(PC-SIG Disk# 647)

Ancestry See *Genealogy.*

Anti-Virus See *Security — File, Disk, or System.*

AnyWord Search text files without disturbing them, create new ones based on the search, and browse through current files. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1200)

Apollo Mission An in-depth simulation of the Apollo lunar missions. Orbit in the Skylab, undock in the Lander, land and explore the moon. See *Astronomy and Space Exploration.*
(PC-SIG Disk# 987)

Application program Wordprocessors and spreadsheets are application programs. That means they were designed to carry out a specific task. The other kind of programs are system software. They hang around to make sure your computer, and the devices you hook up to it, go on working correctly while you switch from one application program to another.

Apply Keep track of all applications you send out, whether for jobs, grants, queries, or submissions. See *Resumes and Job Search.*
(PC-SIG Disk# 1005)

Appointment Calendars See *Schedulers, Calendars, To Do Lists, and Ticklers.*

Arc Use your diskette space efficiently. Pack large programs on standard media and unpack them when you need them. Four versions of "ARC." See *Archive/Compression Utilities.*
(PC-SIG Disk# 609)

Arcade Series 3 A diskful of arcade games: Breakout in BRICKS, three-dimensional pakman in 3-DEMON, jump barrels and watch out for KONG, squish killer bees in PANGO, and more! See Games, Arcade.
(PC-SIG Disk# 293)

Archive bit Whenever you store a file on a disk, your computer adds some bits of information to denote its status. One of the bits is called the archive bit. It's a handy thing if you are backing up files on your hard disk. The archive bit makes it possible for you to back up only those files that have been modified since the last time you backed your hard disk files up. If you have a large number of files, the archive bit can save you quite a lot of time. Sometimes, the term archive refers to anything you plan to store for a long time. The archive bit can't tell if files have been archived (squeezed); only if they have been backed up.

Archive Menu ARCHIVE MENU is a utility for the archive program ARC.EXE (not included) to make archiving files much easier for the novice. See *Archive/Compression Utilities.*
(PC-SIG Disk# 1205)

Archive/ARC To archive a file is to condense it so it will take up less storage space. When you see a filename like REPORT.ARC, the .ARC means the file has been archived. Sometimes, it consists of several files that have been condensed down to one file. Condensed files are called archived files. You must unarchive condensed files before you can run them on your computer. Shareware boasts excellent programs that compress and uncompress files such as PKXARC, ARC, and PK-ZIP. This same process is sometimes referred to as squeezing or crunching. For programs see *Archive/Compression Utilities.*

Archive/Compression Utilities

■ Arc

A collection of file archiving utilities. Use the space on your disks more efficiently. Because file compatibility can change with different versions of "ARC," four different versions are included.

(PC-SIG Disk# 609)

Special Requirements: *None.*

Author Registration: *$35.00*

■ Archive Menu

ARCHIVE MENU is a utility for the archive program ARC.EXE (not on this disk) to make archiving files much easier for the novice.

ARCHIVE MENU provides a menu where you may list the DOS directory, list the directory of an archive, and extract, add, delete, or update a file. All of this is done automatically, and you do not need to know the command line syntax in order to perform these operations, as you would if the program ARC.EXE were used by itself.

(PC-SIG Disk# 1205)

Special Requirements: *ARC.EXE.*

Author Registration: *$10.00*

■ Compress

COMPRESS is a data compression routine for text files. It compresses one file at a time, and works under a variety of operating systems including MS-DOS, VMS, and even various versions of UNIX. C source code is provided.

(PC-SIG Disk# 1037)

Special Requirements: *None.*

Author Registration: *None.*

■ PKPAK, PKUNPAK, and PKSFX

PKPAK, PKUNPAK and PKSFX are a set of archiving utilities that allow you to compress your files into an "archive file" which takes up smaller disk space for storage and helps reduce the transmission time when sending files over the modem. PKPAK compresses multiple files into an "archive" file, PKUNPAK extracts some or all these files from the archive for normal program usage, and PKSFX creates self-extracting archive files. Archive files may be updated, listed to the screen, annotated with comments, printed, and password protected.

Other features include: the option to extract only the most recent files when the same named file already exists on disk, ability to extract files to the printer in both ASCII and binary mode, easier to read listing of files, and the ability to update archives which are larger than half your floppy disk storage area.

(PC-SIG Disk# 1330)

Special Requirements: *None.*

Author Registration: *$20.00*

■ PKZIP, PKUNZIP, PKSFX

Whoa! Hold on there guys! There's a new program in town!

Call it the "Amazing Shrinking Disk." PKZIP is the new file compression system from PKWARE that lets you cram a lot more programs and data onto that precious, crowded real estate of your hard and floppy disks by shrinking it all into ZIP files that need less bytes of space to do the same job.

Other things PKZIP can do for you: When you need to take your data on the go, ZIPping means you will have fewer floppies to carry or lose! Downloads and backing-up your system will go faster. ZIPped files also take less time to transmit via a modem. Many BBSs (computer bulletin board services) are now using ZIP files as their standard.

PKZIP also handles all your file maintenance needs, including adding and deleting files, and reporting on technical information from within compressed files.

PKUNZIP is the complementary program that reconstructs or extracts compressed files. In addition to reconstructing a complete ZIP file, it can selectively release individual files, show files on the screen for fast viewing, or print them. Included is a 28-page on-disk manual telling you everything you could ever want to know about how compression works.

(PC-SIG Disk# 1364)

Special Requirements: *None.*
Author Registration: *$25.00*

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Are You Ready For Calculus? Review the basics of algebra and trigonometry to prepare for Calculus I and Business Calculus. See *Math and Geometry Programs.*

(PC-SIG Disk# 858)

Area Codes, Telephones See *Reference Materials (books/articles/information/data).*

ArgaUtilities: Argafind, ArgaMenu, Argacopy Searches and finds a misplaced file lost anywhere on your hard disk — the modern day "needle in a haystack"! Also, menued access to programs and DOS housekeeping chores, such as moving files. See *File Management Utilities.*

(PC-SIG Disk# 1359)

ARIONX: Seeker of Gans If you love cryptographics, logic, math puzzles, and code-cracking, then ARIONX will challenge you. See *Spelling, Word, and Vocabulary Quizzes and Games.*

(PC-SIG Disk# 1090)

Arithmetic See *Math and Geometry Programs.*

Armada Utilities Made for Tandy but great for any PC, utilities for printing on both sides of a page with correct pagination; controlling EPSON printers; speeding up reboot; and more! See *Word Processor and Text Utilities.*

(PC-SIG Disk# 1376)

Artificial Intelligence

■ Decision Analysis System

DECISION ANALYSIS SYSTEM helps you decide which course of action you want to take. The program is made up of two separate and independent programs: the Decision Matrix Method (DMM), and the Pairwise Comparison Method (PCM).

DMM is used primarily with tangible and easily proven data. It presents an impartial ranking of alternatives, quickly narrowing the set of options to consider. It discards dominated or substandard choices, and then ranks the remaining alternatives in order of preference.

PCM deals with subjective evaluations of alternatives and criteria. It develops a hierarchical structure of the problem, and enables you to quantify and rank each element. Setting up your problem this way helps you focus your attention on each part of the problem separately.

(PC-SIG Disk# 953)

Special Requirements: *None.*
Author Registration: *$340.00*

■ ESIE

Put some smarts in your personal computer and turn it into your very own assistant. ESIE, the Expert System Inference Engine, is an artificial intelligence shell that lets you build a custom knowledge base, or expert system, to help you make decisions.

Simple but effective, ESIE operates by loading in a knowledge base and building inferences out of the rules contained therein. You define the rules that the system uses. This is especially good as an introduction to expert systems as well as having excellent on-disk documentation to get you started in AI. For the advanced student, ESIE can handle the normal gamut of expert systems building.

To see how ESIE works without building your own knowledge base, load ESIE and one of the three supplied knowledge bases (Animal, Doctor, or Glass) and try it!

(PC-SIG Disk# 398)

Special Requirements: *None.*
Author Registration: *$75.00. For $145.00 you get source code, telephone support, and more.*

■ *Imp Shell, The*

IMP SHELL is a powerful expert system for the IBM-PC. It has all the utilities needed to develop, test, and run new expert systems.

An expert system is a program that has captured the expertise in some field and can deploy that expertise with seemingly intelligent behavior. It's a flowchart of sorts, and is especially useful in diagnosing problems — whether you're an auto mechanic with a client whose car keeps stalling, or a test engineer with a batch of wafers that for some reason just won't pass QC. IMP SHELL can speed up your diagnosis process considerably.

The IMP SHELL's functions are menu-driven and appear in windows. IMP expert systems are rule-based, backwards-chaining systems. They are very fast and not limited by an artificially small number of rules. It is especially good for classification tasks, troubleshooting, and alternative selection. It does not, however, have the proper architecture for applications that need a well-defined sequence of complex steps — applications such as cost estimation or equipment configuration. These should be done on a forward-chaining shell.

(PC-SIG Disk# 761)

Special Requirements: *512K RAM.*
Author Registration: *None.*

■ *Management Action Expert*

MAE (Management Action Expert) is an expert system shell that can solve problems in a non-procedural manner from an application of rules and facts about a problem.

MAE reads a file known as a "knowledge base," and asks you a series of questions to determine the cause of the problem. Based on the answers and the information in the knowledge base, a recommended course of action is given.

Create your own knowledge base with a few simple commands and use the program for a variety of applications.

(PC-SIG Disk# 976)

Special Requirements: *None.*
Author Registration: *$100.00*

■ *XLISP*

XLISP is an experimental programming language combining some features of LISP with an object-oriented extension capability. It is written in C and is easily extended with user-written functions and classes. It assumes some knowledge of LISP and object-oriented programming. This version has both MS-DOS and PC-DOS specific code.

This package represents an inexpensive opportunity to begin to tackle programming in the field of artificial intelligence.

(PC-SIG Disk# 148)

Special Requirements: *None.*
Author Registration: *None.*

■ *XXXpert*

XXXPERT lets you create question-and-answer diagnostic programs to help solve problems — an expert system.

An expert system can be used for just about any application that lends itself to a hierarchy of rules. Once a set of rules is created and entered into an expert system, it will let you make decisions more quickly and consistently than before. The same set of rules, used by another, should yield the same decisions.

XXXPERT lets you create a file of rules in an English language syntax. Then you enter questions into a file. Both rules and questions are compiled and then executed by the Consult program. This lets a person answer questions and make decisions.

(PC-SIG Disk# 883)

Special Requirements: *512K RAM.*
Author Registration: *$29.00*

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ASCII (American Code for Information Exchange) ASCII is essentially the alphabet of your computer. This code is understood by most personal computers to represent 128 letters, characters, and numbers. Since it is a standard, it is a good way to exchange files between programs and between remote computers. Many wordprocessors store their files in ASCII format. Many other wordprocessors and databases can convert ASCII files for their own use. For instance, PC-Write stores files in ASCII format. WordPerfect, a commercial wordprocessor, can convert ASCII files for its own use.

AsEasyAs Muscular spreadsheet that features on-line help, macros, financial and statistical functions, date arithmetic, database functions, and graphs. Supports Lotus 1-2-3 ".WK1" files. See Spreadsheets.
(PC-SIG Disk# 751)

Assembler/Assembly language Assembly is a "low level" computer programming language that is very close to the machine code a computer directly executes. Machine code or machine language consists of nothing but zeroes and ones that is all a computer can really understand. An assembler is a program that translates (assembles) assembly language programs into machine code. "High level" languages (BASIC and Pascal) have commands that are in English and must be compiled to get them down to zeroes and ones. For programs see *Programming, Assembly.*

Assembly Programming See *Programming, Assembly.*

Assembly Utilities A sound effects generator, a text editor, and others in Assembly source code. See *Programming, Assembly.*
(PC-SIG Disk# 309)

Astrol95 Cast your own horoscope from the 12 signs of the heavens. Calculate your chart from the stars and the important dates in your life. See *Astrology and Fortune Telling*.
(PC-SIG Disk# 966)

Astrology and Fortune Telling

■ Astrol95

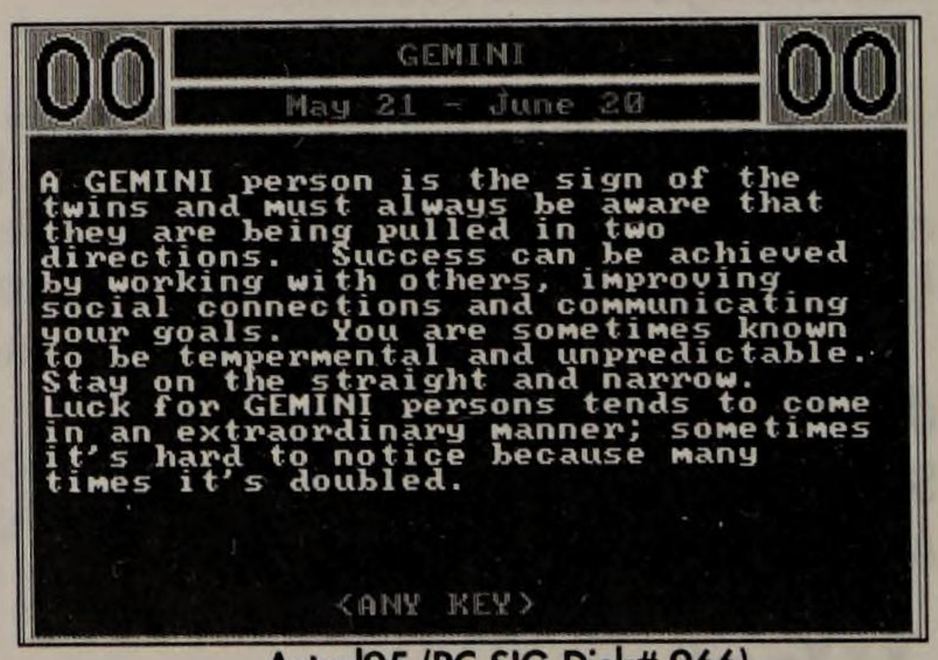
Know what the stars have in store for you, your family and friends.

ASTROL95 is a comprehensive astrology program that calculates the zodiacal positions of all of the planets and the sun, moon, and the 12 house cusps for any date, time, and place. Display the aspects and midpoints between the planets, ascendant, and midheaven and midpoint/planet conjunctions.

ASTROL95 lets you calculate a person's transits for up to one year. Charts can be displayed in either graphic chartwheel format or in non-graphic format. The charts can be saved to disk, reviewed, deleted, sorted alphabetically, and compared with other charts.

You can compare mutual aspects and indexes of communication for compatibility, as well as conduct rapid searches for compatible matches between charts.

So, what's your sign?



Astrol95 (PC-SIG Disk# 966)

(PC-SIG Disk# 966)

Special Requirements: *Hercules graphics.*

Author Registration: *$27.95*

User Comments: *"Fabulous. A lot of hard work and thought went into this program. I'm totally satified." "Everyone wants their horoscope done." "This is one of the best basic programs for calculating and comparing birth charts."*

■ Geomancy

Want to know what your future holds? Try this computerized version of GEOMANCY, an ancient system of divination.

Originating in Africa, GEOMANCY was officially outlawed by churchmen for its ties to the occult and witchcraft. For the daring computer buff, it offers a way to become a Querent and turn your questions over to four 'Mothers,' four 'Daughters,' four 'Nephews,' and two 'Witnesses' in a dozen 'Houses' with a 'Reconciler' to resolve conflicts.

You or your computer can create the needed 16 rows of dots found in a random field. Minutes later, you scroll through the dozen houses to see the truth revealed in ASCII interpretations. You can save your answers to disk, chart them, or print them.

(PC-SIG Disk# 1275)

Special Requirements: *512K RAM.*
Author Registration: *$30.00*

■ Oracle

What do the coming years have in store for you? Wouldn't you like to take a peek? ORACLE might be a part of your future.

ORACLE is useful both for people learning to use the "I Ching" or "Tarot" cards, or for those who use them frequently and would like to spend less time counting sticks or shuffling oversized cards. TAROT automatically goes through the procedure for "Tarot" card fortune-telling. ICHING goes through the prescribed fortune-telling procedures with the coin-toss and yarrow stick techniques.

Both methods have an interactive and an automatic mode. See what the fates have written for you.

(PC-SIG Disk# 615)

Special Requirements: *340K RAM.*
Author Registration: *$29.00*

■ Procon Fortune

An astrology program designed to provide a personality analysis according to both Western and Eastern astrology and numerology. Just enter birthdates and names, and you'll have complete personality descriptions and compatibilities with other signs. Results are displayed under both systems of astrology, and another report is provided based on numerology.

(PC-SIG Disk# 1054)

Special Requirements: *None.*
Author Registration: *$30.00 to $90.00.*

■ Rune-Caster

In RUNE-CASTER, the casting of runes, an ancient tool of divination, is used as a modern method to explore personal understanding and growth. Runes are ancient letterings, each of which stands for a concept or theme such as names, momentum, thorn, beach, path, torch, giving, joy, hail, need, ice, harvest, support, kind, star, sprouts, horse, people, water, awaken, and home. Following a quick display of all 24 runes with these one-word definitions at the onset, the RUNE-CASTER Menu appears.

The first selection lets you randomly select a rune by pressing a key while you concentrate on the thought you want some insight on. You are then presented with an explanation of and thoughts about the rune on the left side of the screen, and its detailed graphic representation on the right. The second selection approaches problems from the present situation, the challenge to the situation, and the consideration of future potential. The third selection, the spiral five selection, uses five runes to explore a topic in terms of its initial seed or vision and processes its coming to fruition. This method delves into the perspective of each rune fully before proceeding to the next rune and so on through the five runes.

A brief history of rune usage is provided along with a bibliography covering the subject. The method of rune selection chosen is not a true random selection, but depends merely on the timing of pressing a key. Whether or not such timing yields divination is a matter for subjective speculation. However, the explanations and discussions of the runes are provocative and can lead to unique examinations of problems and decisions which could result in helpful insights.

This program is easy to use and an effective means for distracting attention away from the workaday world to more fundamental and spiritual areas.

(PC-SIG Disk# 1173)

Special Requirements: *Hercules graphics.*

Author Registration: *$10.00*

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Astronomy and Space Exploration

■ Apollo Mission

The APOLLO MISSION SIMULATOR is an in-depth simulation of a manned lunar exploration in the year 2010. This is NOT a game, it is a simulation. There are no points to score; either you survive your mission or you and your crew are space dust!

In a typical mission, you begin in the Orbiting Laboratory, circling 150km above the lunar equator. Enter the landing vehicle, undock, and perform several orbital maneuvers, then land on the moon. Explore the surface using a long-range mobile base and a short-range roving vehicle. A permanent fixed base is also included. Names and locations of over 300 lunar features are listed in one of the documents, each of which is actually in the simulation, so you can become familiar with real lunar geography.

The APOLLO MISSION SIMULATOR is not "just another Lunar Lander." You participate in practically every aspect of a manned lunar exploration program. Set program goals, plan specific missions, and carry out those missions. Enough detail is provided so you can learn a great deal about lunar geography, orbital mechanics and physics in general.

(PC-SIG Disk# 987)

Special Requirements: *None.*

Author Registration: *$20.00*

■ Astronomy Programs

Explore some of the mechanics of the solar system with these tutorials and calculators.

KEPLER solves Kepler's equation for elliptic, parabolic, and hyperbolic orbits. SIDEREAL introduces you to the relationships between Julian calendar dates and solar and sidereal times.

J2000 converts stellar positions, proper motion, parallax, and radial velocity from the standard epoch B1950 (FK4) to epoch J2000 (FK5). GALILEAN determines the position of the Galilean satellites relative to Jupiter.

(PC-SIG Disk# 921)

Special Requirements: *A version of BASIC.*

Author Registration: *$34.95*

■ Astrosoft Ephemeris (ACE)

This program is a general-purpose astronomy software package with three separate parts — ACECALC, ACESOLAR and ACECAT.

ACECALC is a menu-driven astronomical ephemeris. Perform the most needed astronomical calculations involving the sun, moon and planets. The menu displays the local time, date and time zone name, universal time, local mean sidereal time, julian day, and the name of the location designated in the installation. It also calculates astrophotography exposures, precession of coordinates, phases of the moon, equinoxes and solstices, and satellites of Jupiter.

ACESOLAR provides information on objects in the solar system such as numeric data on the sun, the planets and their satellites. Also available are narrative descriptions of the sun and planets and observational data.

ACECAT lets you search the sky catalog for objects by name, catalog number, and position — in terms of R.A./declination, object type, and constellation. This sky catalog provides data on over 2000 deep-sky objects, the entire Messier Catalog, 100 named objects, all bright stars to magnitude 2.00, and 100 prominent double stars,

with detailed commentary on nearly 400 of these objects. Objects can be searched on the basis of one criterion or by a combination.

(PC-SIG Disk#'s 692, 693)

Special Requirements: *None.*
Author Registration: *$25.00*

User Comments: *"A very valuable tool for the novice as well as experienced astronomer, though most useful to experienced star-gazers." "The star catalog makes this set worth it. Great for sky watching."*

Deep Space (PC-SIG Disk# 866, 867)

■ Deep Space

DEEP SPACE is a powerful star-mapping program with a database of 18,000 stars, used by a number of serious astronomy publications to create their star charts.

It can produce all-sky views for any day and time anywhere on earth. Selected portions of the sky can be chosen by constellation or coordinates. Comet paths can be computed and added to the star maps to create finder charts or to visualize the orbit of a comet from any point in space. A separate routine plots the positions of the planets throughout the year and generates orbit diagrams.

Although DEEP SPACE has many features that will be attractive to experts, it is simple enough to be used easily by beginners. Each option provides intelligent default values in case the feature is beyond the interest or knowledge of the user. A simple star chart option is provided that bypasses most of the detailed options.

The most unique feature of DEEP SPACE is depth. It can produce stereo 3-D printouts that show the stars or the orbits of comets in their true three-dimensional relationships when viewed with a stereo viewer. A 3-D viewer kit is included in the registration price.

For centuries Man has gazed at the nighttime sky and wondered what was out there. DEEP SPACE will help answer some of those questions.

(PC-SIG Disk#'s 866, 867)

Special Requirements: *512K RAM. Recommended: dot matrix printer, CGA, and coprocessor.*
Author Registration: *$59.00*

■ Launcher

LAUNCHER simulates a single stage-to-orbit launch vehicle. This is a very good quality simulation to learn the "feel" for orbital mechanics. You can design your own vehicle and pilot it to orbit and rendezvous with the space station. An interest in orbital mechanics is required (knowledge about it would be helpful, but is not mandatory). A documentation file is included.

(PC-SIG Disk# 945)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ Moonbeam

MOONBEAM is a program that takes the date and time, as well as your time zone, and gives you a lot of general information regarding the position of the moon and its relationship to Earth. SUNSET accepts the date, time, and location of position and displays general information about the sun in relation to Earth. SOLAR is a duplicate of the SUNSET program mentioned above, with some slight variations.

(PC-SIG Disk# 538)

Special Requirements: *None.*
Author Registration: *None.*

■ Optics

OPTICS gets optical parameters from the sophisticated lens user and returns a myriad of technical information about reflecting lenses or telescopes.

(PC-SIG Disk# 538)

Special Requirements: *None.*

Author Registration: *None.*

■ Particle Simulation

Here are several programs that simulate the orbits of celestial bodies and small particles. Use them to simulate the orbit of a three-star system, the orbit of a comet approaching the Earth, and the orbits of the Earth, sun, and moon. PARTICLE SIMULATION also has programs that simulate the movement of a particle inside an ellipse or an ellipsoid.

In addition, there's an explanation of the twin paradox of relativity: why people should cease to age as they approach the speed of light. Graphics are included in the explanation.

(PC-SIG Disk# 1070)

Special Requirements: *CGA or EGA.*

Author Registration: *None.*

■ Planets

PLANETS computes the position, distance, magnitude, orbital view, and skyview for the planets, major asteroids, and Halley's Comet. Skyview and orbital view can describe forward or retrograde motion. Display the moons for each of the planets.

(PC-SIG Disk# 298)

Special Requirements: *CGA.*

Author Registration: *$10.00*

■ Rocket Programs

A trio of programs applicable to the performance of rockets and gliders, and the air in which they fly.

ATMOS determines properties of the standard atmosphere. ROCKET1 explores the flight performance of a single stage model rocket. GLIDER determines the maximum flight range and endurance conditions of boost and rocket gliders. This is also applicable to sailplanes, hang gliders, and radio-controlled gliders.

(PC-SIG Disk# 921)

Special Requirements: *A version of BASIC.*

Author Registration: *$19.95*

■ Satellite Programs

SYNCSAT and TNODE help you determine the location of several Earth-orbiting satellites. You can use this information for radio tracking, communications, and visual observations of Earth satellites.

(PC-SIG Disk# 921)

Special Requirements: *A version of BASIC.*

Author Registration: *$24.95*

■ Silicon Sky

SILICON SKY is a planisphere that lets you study the night sky as it appears in any region of the world, looking in any direction, and as it appeared on any date you select. It offers two viewing options, Stars+Solar System Objects and Planetarium. There's even an optional cricket sounds accompaniment!

The program paints the stars on the screen for most horizons. Then two menus are available so you can request that solar system objects and constellations be highlighted. Specific planets and the moon are circled, and constellations are drawn in with dotted lines upon request.

(PC-SIG Disk# 1103)

Special Requirements: *CGA.*

Author Registration: *$10.00*

User Comments: *"Registered immediately. I plan to show at the astronomy club and get them into shareware." "Silicon Sky is terrific. The options are amazing." "My favorite of all the astronomy programs available."*

■ Star Catalogue

A valuable collection of useful programs for anyone with an interest in astronomy.

STAR CATALOGUE lists the named and designated stars of the 88 constellations — generally of the sixth magnitude or brighter. Others of interest are included along with dimmer stars within 10 light years of Earth. About 1700 stars are included in the data files. The statistics on each star includes name, magnitude, spectrum type, distance, and other information. It also includes cross-referenced stars, whether the star is a binary, variable, or erratic variable, and the period of variation.

CONSTELLATION 88 presents a diagram of each of the 88 constellations, with their general coordinates, right ascension, and declination.

SOLAR SYSTEM gives essential facts and figures on the planets, moons, asteroids, and satellites within our solar system. Information includes distance, diameter, rotation, revolution, orbit, eccentricity, and much more.

ASTRONOMY NOTES discusses general information concerning stellar astronomy such as spectral classes, Hubble's Constant, Kepler's Harmonic Law, and Hertsprung-Russell diagrams.

CONSTELLATION NAMES lists (surprise!) the names of the constellations, and ASTRONOMY CONVERSIONS contains information about different systems of distance, temperature, and time.

(PC-SIG Disk#'s 851, 852)

Special Requirements: *Hercules graphics or CGA.*
Author Registration: *$30.00*

User Comments: *"I like the index cards for major stars. Astronomy Star was interesting." "Yeah! Good sound effects. Constellations at your finger tips."*

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Astronomy Programs Explore some of the mechanics of the solar system with these tutorials and calculators. See *Astronomy and Space Exploration.*
(PC-SIG Disk# 921)

Astrosoft Ephemeris (ACE) Astronomical calculations of the movements of the heavenly bodies in our solar system. Menu-driven program provides fascinating information about the sun and planets. See *Astronomy and Space Exploration.*
(PC-SIG Disk#'s 692, 693)

Asynchronous, Synchronous Communication Asynchronous communication is when bits of data are transmitted without regard to the speeds of the communicating devices. As with a slow computer communicating with a fast computer, the speed of the computer is not important in asynchronous communication. In synchronous communication, both communication devices must be operating at the same speed or "synchronized." Synchronous communication is much quicker but asychronous communication lets different types of communication devices talk to each other. For programs see *Communication Programs.*

Attorney, Record Keeping See *Business Specific Systems.*

Auctions, Record Keeping See *Business Specific Systems.*

AUDIO II Print custom, professional-looking label inserts to identify recordings you've made on audio cassettes. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1438)

Author Take command of your text files. AUTHOR takes large text files and splits them into files in page lengths you specify. Also contains notepad, text viewer, typewriter, and directory viewer.
See "Armada Utilities" listed under *Word Processor and Text Utilities.*

Auto/Vehicle Management

■ PC Mechanic

Whether you run a hotel or heavy equipment yard, PC MECHANIC will insure that preventive maintenance for your company is properly handled.

This integrated preventive maintenance system outperforms many programs costing several thousand dollars, and will serve the needs of companies that process up to 200 work orders every day. It consists of three interactive modules: the inventory system, work order system, and maintenance manager.

The inventory system tracks vendors, helps prevent parts shrinkage, cuts down on overstocking and helps make sure you have what you need when you need it. The system remembers what you paid for parts and adds that amount to the cost files on each job and piece of equipment.

The work order system insures that vital maintenance is done in a timely manner and keeps track of who does the servicing. Work orders are printed along with schedules and work assignments. If someone abuses or neglects equipment, the program crunches the labor and parts numbers to generate costs for all to see.

PC MECHANIC lets you print daily or weekly reports showing what work was performed by who. List outstanding work orders and review them with respective trade supervisors and foremen. You get aging reports telling you where you stand on completing your work backlog. Because the inventory system interacts with the work order system, you'll know when not to schedule work because needed parts are back ordered.

The maintenance manager stores basic information on employees and makes sure that performance reviews are done on time. It can print employee lists, alphabetically, including the ID numbers which are posted as part of preventive maintenance reports. It also lists workers by seniority.

(PC-SIG Disk# 1277)

Special Requirements: *640K RAM, CGA, hard drive, dot matrix printer, and dBase III or IV.*
Author Registration: *$50.00*

User Comments: *"Excellent program that meets the needs of small business. Good documentation and a great narrative by its author. I'm impressed! I was able to have the program up and running in less than 15 minutes."*

■ Performance Calculator

Monitor the performance of the second biggest investment you will ever make.

PERFORMANCE CALCULATOR provides formulas, conversions, and calculators to estimate the performance of a car. From the menus, you request the desired function and enter the required data for the calculation. This program computes the horsepower, maximum air and fuel flow, torque, displacement, and compression ratio of the engine. Graphs can be displayed for the horsepower, torque, maximum air flow, and maximum fuel flow.

Determine the cornering g-force, the coolant freezing and boiling point, the potential top speed, the quarter-mile time and speed, the speeds in gears, the overall gear ratio, the coil spring rate, and the sway bar rate of your car. Included are conversion calculators for inches/centimeters and cubic inches/cubic centimeters.

(PC-SIG Disk# 894)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Schedule Magic

SCHEDULE MAGIC is designed to automatically calculate and optimize daily commercial vehicle schedules. The schedule optimizer finds vehicle routes that minimize the number of vehicles needed, thus reducing total fleet miles. Until now, the formidable mathematics of optimization needed mainframe computers for vehicle scheduling. However, this program uses a new method that allows the same calculations to be made on any IBM-PC or compatible.

Four sample scheduling applications are included as tutorial example problems:

- Service: plumbing, heating and air conditioning, appliance installation and repair, pest control, etc.
- Delivery: wholesale delivery of groceries, drugs, hardware, fuel oil, commodities, etc.
- Schools: bus routings
- Banks: courier vehicles for branch bank pick-up operations

SCHEDULE MAGIC offers a whole new approach and system design based on the concepts of grid coordinate locations of all points, automatically calculated straight line distances and travel times, and getting started by use of a complete manually calculated schedule.

(PC-SIG Disk# 1098)

Special Requirements: *A printer and Lotus 1-2-3 or AsEasyAs.*
Author Registration: *$49.00*

■ TLC for Trucks

Proper management of business vehicle fleets requires good record keeping. This is an area where TLC FOR TRUCKS (TLC) really shines for small to medium- sized fleets (999 vehicles or less).

TLC makes a database that allows 19 different fields of data for each vehicle. A reporting function prints this data in various formats, making cost analysis easier.

TLC is very complete and easy to use. The documentation provided is both ample and understandable. Source code is available separately so you can customize to suit your needs.

(PC-SIG Disk#'s 1085, 1355)

Special Requirements: *320K RAM and a printer.*
Author Registration: *$20.00*

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AUTOEXEC.BAT Power up your computer and it immediately loads its operating system files. The next thing it does is look on the boot disk for the AUTOEXEC.BAT file. You don't have to have an AUTOEXEC.BAT but they can be helpful if you want the same commands carried out whenever your computer is first switched on. This is a batch file with those commands. For instance, you might have your AUTOEXEC.BAT prompt you for the time and date and then invoke your wordprocessor.

Automated Planning Form (APF) Menu-driven set of planning tools. Make, store, retrieve and update project schedules. See *Project Management.*
(PC-SIG Disk# 955)

Automenu Top rated program! With or without a mouse, create your own easy access menus and then just "point and shoot" to find and run all your programs. See *Menu Programs.*
(PC-SIG Disk# 608)

AVScripter A text formatter specifically designed for writing audio-visual scripts. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1028)

B

b-Crypt Encrypts your confidential files so only you can read them. The author includes a challenge: if you can break his encrypted message you'll win a cash prize! See *Security — File, Disk, or System.*
(PC-SIG Disk# 1382)

Baby Watch the baby fall from the burning building. If you're a decent fireman, you'll catch the baby before he hits the pavement. See "Game Series 18" listed under *Games, Arcade.*

Backgammon Whether you're the BACKGAMMON champ in three counties or have never played the game before, here's an opponent/teacher for you. Your next game is as close as this disk. See *Games, Board and Dice.*
(PC-SIG Disk# 708)

Backscroll Memory resident utility that will take pictures of your screen output and put them into a buffer for later recall. See "Best Utilities" listed under *File Management Utilities.*

Backtalk Great practical jokes to put on a fellow user's system. Make him blow his mind by making him think he deleted his hard drive. Other great pranks included. See "Program Grab Bag" listed under *Practical Jokes.*

Backup, BACKUP Backup is a process of making copies of data and/or programs so you'll have them in case you destroy the original copy. Some programs are available that are designed to make this easier for you if you have a hard drive. BACKUP —with capital letters — is a DOS command specifically designed for backing up hard disk files. See your DOS manual for information on the DOS BACKUP command. For programs see *Hard Drive Utilities.*

Baker's Dozen Recover accidentally erased files and print files sideways. Also included : a memory-resident calendar, mini-spreadsheet, and nine more useful aids. See *File Management Utilities.*
(PC-SIG Disk# 800)

Baking See *Food and Drink Preparation.*

Ball Catcher Balls falling everywhere! Catch the balls before they hit the ground. This fast-paced game will have you frustrated in no time at all. See "International Game Collection" listed under *Games, Arcade.*

Ballistics, Rifle See *Reference Materials (books/articles/information/data).*

Balloon Speller You provide the words for flash card, word jumble, and hangman spelling games for children, ages 5-8. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 1333)

Bank Account Manager BANK ACCOUNT MANAGER lets you keep track of all your bank accounts. Intended for novice users who want to balance their checkbooks and/or want to keep track of up to 10 active accounts. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk#'s 1134, 1258)

BANK STATEMENT TAMER A menu-driven, headache-free way to balance your checkbook against your bank statement. Step-by-step, you are lead through the mechanics of how to reconcile your records with the bank's. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 1435)

Banker BANKER is a financial program that computes just about anything involving loans, savings, bonds, securities, and credit. See *Loan Calculators.*
(PC-SIG Disk# 1159)

Banner Print long, large banners for birthdays, anniversaries, sales announcements. See Banner Makers.
(PC-SIG Disk# 386)

Banner Makers

■ Banner

Print long, large banners for birthdays, anniversaries, sales, or announcements from your keyboard. Included is the MS-FORTRAN source code to customize the program to suit your needs. A straightforward program and a good addition to anyone's collection.

(PC-SIG Disk# 386)

Special Requirements: *Printer.*
Author Registration: *$5.00*

User Comments: *"Really makes HUGE BANNERS. Nice for decorating for special events"*

■ PC-Banner

WELCOME HOME for the new baby, the traveler or the convalescent, SALE TODAY to boost your daily cash-flow, or HI MOM from the football game. You can have them all and more with PC-BANNER.

Here is a simple, menu-driven banner program that lets you change the style of print from light to dark. And it uses the IBM graphics character sets for high-quality banners.

(PC-SIG Disk# 779)

Special Requirements: *Printer.*
Author Registration: *$2.00*

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Banner85 Welcome anyone home in style! Print a sideways banner on form-fed computer paper. See "Printer Utilities 4" listed under *Printer Utilities.*

Bar Graphs See *Graphing Programs.*

Barcode BARCODE allows you to print bar code labels on your printer. See *Barcodes.*
(PC-SIG Disk# 877)

Barcodes

■ Barcode

You've seen them everywhere: on your soda can, at the grocery store, on the TV guide — those groups of lines with numbers under them. BARCODE allows you to print these bar code labels on your printer. It is designed to print code three of nine, a type of bar code which allows both alphabetic and numeric characters. Labels can be printed up to 15 characters in length.

Define the placement of the bar codes, place a description over each code, print single or multiple copies of one bar code, or print a run of sequentially numbered bar codes. BARCODE can hold three different printer configurations, and can switch between these configurations with one keystroke. The three configurations can be

modified to accommodate a multitude of printers and come pre-configured for IBM graphics, APA graphics, and Epson graphics printers.
(PC-SIG Disk# 877)
Special Requirements: *Printer.*
Author Registration: *$25.00*

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Bartending See *Food and Drink Preparation.*

BASIC (Beginner's All-Purpose Symbolic Instruction Code) This popular computer programming language was designed in the 1960s at Dartmouth College by John Kemeny and Thomas Kurtz. BASIC was developed for teaching beginners how to program. In DOS, BASIC and BASICA are commands that call up BASIC interpreters. These interpreters can look at a program written in BASIC and make it work on your computer. In an IBM computer, the interpreter is stored in ROM. In compatibles, the BASIC command calls up an interpreter program stored on a disk. For programs see Programming, BASIC.

Basic English BASIC ENGLISH can tell you how many words in your poem or prose are on the magic list of 850 words scholars agree are simple and most understandable to the average reader. See *Writing and Composition Aids.*
(PC-SIG Disk# 1181)

BASIC Games Includes BASIC source code for several arcade games: Submarine Warfare, Robot Combat, Frogger, and more. See *Programming, BASIC.*
(PC-SIG Disk# 174)

BASIC Games & Programming Intro A computer tutorial with programs you can write and run! Get acquainted with the elemental concepts of BASIC and try your hand with several simple programs. See *Programming, BASIC.*
(PC-SIG Disk# 595)

BASIC Language Games A group of vastly different games from the educational to the childhood favorites — connect-the-dots and the hidden objects puzzle. Ages 7-11. See Programming, BASIC.
(PC-SIG Disk# 45)

BASIC Programming See *Programming, BASIC.*

BASIC Programs in Finance and Inventory Loan amortization and bond yield analysis coupled with inventory routines for cash register input and pick lists. BASIC source code included. See *Programming, BASIC.*
(PC-SIG Disk# 171)

BASIC Programs in Math and Statistics Many handy analysis tools for the advanced math student and the financial professional. BASIC source code included for further customization. See *Programming, BASIC.*
(PC-SIG Disk# 180)

Basic Windowing Toolbox For BASIC Programmers BASIC programmers — design more exciting software. Windows can add that professional flair to your work. See *Programming, BASIC.*
(PC-SIG Disk# 527)

BASICA, BASIC These are both names for the BASIC interpreter stored in ROM in an IBM PC. If you own a compatible, you probably have a file called GW-BASIC on your DOS disk for the same purpose. Except for a few rare cases, it doesn't matter which you have. For programs see Programming, BASIC.

BASICXREF This is an excellent resource for tracking your BASIC work: List line numbers with references, all variables, source code, and more. See *Programming, BASIC*.
(PC-SIG Disk# 358)

Basketball Simulation A text-based basketball simulation. You choose the teams and then the games begin! See *Games, Adventure and Text.*
(PC-SIG Disk# 946)

Baslin BASIC LINE NUMBERING removes unreferenced line numbers from — or adds line numbers to — BASIC programs saved in an ASCII format. See *Programming, BASIC*.
(PC-SIG Disk# 989)

Basstour Captain a fully-rigged bass fishing boat in this colorful tournament that will put all your fishing skills to test. See *Games, Arcade (Sports).*
(PC-SIG Disk# 1319)

Batch Language Programming See *Programming, Tools.*

Batch/.BAT A batch file is a file or list of DOS commands that are executed one after another. The file extension .BAT denotes a batch file. Type in the filename of your batch file (without the extension), press ENTER, and your computer executes all the DOS commands in your batch file. These are handy tools for things like file management or starting up regular application programs. See your DOS manual for information.

Battle Ground BATTLE GROUND is a World War II field-combat game/simulator for two players. See *Games, Adventure and Text.*
(PC-SIG Disk# 1090)

Baud Baud is an accepted measure of how fast information is transmitted. The baud rate measures bits per second. Normal telephone modems generally work at 300, 900, 1200 or 2400 baud. For programs see *Communication Programs.*

BBS See *Bulletin Board Systems (BBS).*

BBS (Bulletin Board System) A BBS is an electronic message center. Hardware and software work together to let the computer answer the phone and offer an electronic message service to many users. The BBS lets the users swap software programs and files. It is also known as a remote bulletin board system (RBBS) or an electronic bulletin board. For programs see Bulletin Board Systems (BBS).

Becknervision Video Database Manager Organize your videotape library with this database. Search by many categories, and print reports and listings of your collection. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1030)

Best Utilities Some of our "greatest hits": RAMdisk, BACKSCRL, NDOSEDIT, selective copy and delete routines, a spooler and more. See *File Management Utilities.*
(PC-SIG Disk# 273)

BetaTool's BASIC Development System Compiles and runs your BASIC programs of up to 6500 bytes. Adds easy file editing, instant cross-reference lists, selective line renumber, variable dump, program expand and compress. See *Programming, BASIC.*
(PC-SIG Disk# 269)

Betting and Gambling See *Gambling.*

Beyond the Titanic Lucky you! A passenger aboard the maiden voyage of the unsinkable Titanic. Now figure out how to stay alive! See *Games, Adventure and Text.*
(PC-SIG Disk# 832)

Bible Men Quiz game with questions from the books of the Bible. See *Bible Study.*
(PC-SIG Disk# 781)

Bible Quiz Plus A religious trivia game with three levels of play for 1-6 players. Or create your own questions and answers. See *Bible Study*.
(PC-SIG Disk# 974)

Bible Study

Bible Study See *Church Administration*.

■ Bible Men

BIBLE MEN is a wonderful little quiz program that tests your finer knowledge of the Word. You begin by telling BIBLE MEN whether you want it to focus on either the Old or New Testament. Then it asks you for each player's name (up to eight). It gives you some significant passage, often written in first person, and asks you to identify the person. For example, it might give you this:

"May the Lord show mercy to the household of Onesephorus, because he often refreshed me and was not ashamed of my chains."

You then type the name of the person referred to. (In the above example, the reference is to Onesephorus, the scripture is II Timothy 1:16, and the author is the Apostle Paul.) When you don't know the answer, you can choose to see the verse, the answer, or move on to another question. You can look at the answers to a question and move on without affecting your score; scoring occurs only when you type an answer. BIBLE MEN displays your score as tries, wrong, right, and percent. Did you know the answer to the above example?

(PC-SIG Disk# 781)

Special Requirements: *None.*
Author Registration: *$15.00*

User Comments: *"Enjoyed and learned from the games." "Made Bible study fun."*

■ Bible Quiz Plus

BIBLE QUIZ PLUS is a religious trivia game with three different levels of play for one to six players. Questions are asked and answers can be in multiple choice, fill-in-the-blank, or answer only format. These questions are from the Book of Psalms and the Book of Proverbs from the King James version of the Bible.

A user option is included that lets you create your own questions. Not only is BIBLE QUIZ PLUS fun to play, but it is a great educational tool for both children and adults.

(PC-SIG Disk# 974)

Special Requirements: *A version of BASIC.*
Author Registration: *$10.00*

■ Bible, The

This disk is part of a seven-disk set with the entire King James version of the Bible. It is in text file format, making it easy to locate verses, add passages into documents, or prepare manuscript studies.

Since it is all ASCII text files, each book is a separate file. When you get the disks, the files are archived, or "squeezed," so you must first unsqueeze them onto either 19 other 360K floppies or onto your hard drive. Be advised that some books of the Bible are too long to fit into some wordprocessors that limit the size of documents to the amount of available RAM.

To view or search these files, you need to use a wordprocessor or some kind of viewing shell. No such program is provided on this disk.

(PC-SIG Disk#'s 766, 767, 768, 769, 770, 771, 772)

Special Requirements: *Two floppy drives or a hard drive.*
Author Registration: *None.*

■ Bible-Q

BIBLE-Q is a trivia-type game with 1000 multiple-choice questions drawn from the Bible. Bible students and teachers of the church school variety will certainly want this in their collections.

Test yourself and others on a wide range of topics including geography of the Biblical lands, personalities, incidents, and teachings of the Gospels. Players can choose the category and difficulty level of the question. Combine with WORDWORKER (PC-SIG disk #'s 581, 582) and you have the foundation for an excellent on-line scripture study system.

(PC-SIG Disk# 628)

Special Requirements: *None.*
Author Registration: *$12.00*

User Comments: *"A very good program for checking your memory of Biblical facts." "Enjoyed and learned!"*

■ Daily Bread

DAILY BREAD is a Bible program that will display a different verse or reading from the King James version for every day of the year. One can read the entire Bible by following DAILY BREAD's daily readings for a whole year.

(PC-SIG Disk# 1327)

Special Requirements: *None.*
Author Registration: *None.*

■ Destiny

DESTINY is a simple text-adventure game designed to teach Biblical truths. In each place encountered, you must make a decision in order to determine your destiny. The adventure has its own symbolism which must be interpreted to succeed in the game.

(PC-SIG Disk# 1327)

Special Requirements: *None.*
Author Registration: *None.*

■ Gospel Concordance

GOSPEL CONCORDANCE lists every word of the four gospels of the Bible in alphabetical order and the passages where each is found. Of interest to Bible students and ministers, this research tool helps with word studies, finding a particular passage, and comparing the accounts of the four gospels. When unarchived, the GOSPEL CONCORDANCE occupies a total of three floppy disks.

An included program, LIST.COM, allows you to directly view the concordance text files on your screen or you can use any standard wordprocessor. All of the files pertaining to the GOSPEL CONCORDANCE are simply text files that you can view or print. Also on this disk is a catalog which lists other program study aids for the Bible.

(PC-SIG Disk# 1208)

Special Requirements: *None.*
Author Registration: *$9.00*

■ Wordworker

This is a electronic New Testament Bible reference system ideal for writing sermons, doing research, and the serious Bible student.

Select any New Testament word or combination and then search and display the text of verses that meet your request. In memory-resident mode, verses can be copied into a word processor. Additional features include on-line help, bookmarks, speed reading, word use, and 14,800 references to research works. WORDWORKER

also has a complete editor to create letters, sermons, or other text with the information in the database.
(PC-SIG Disk#'s 581, 582)
Special Requirements: *Two floppy drives.*
Author Registration: *$45.00*
User Comments: *"Excellent. Very easy to use for finding a verse by word, phrase, or chapter and verse reference. Useful when combined with word processor." "Interesting way to study the New Testament." "Excellent! Good Bible reference material."*

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Bible, The The complete text of the Bible (King James version) for study, research, or preparing sermons. See Bible Study.
(PC-SIG Disk#'s 766, 767, 768, 769, 770, 771, 772)

Bible-Q Trivia game with 1000 multiple-choice questions drawn from the Bible. See *Bible Study.*
(PC-SIG Disk# 628)

BIBLIO Writers, Students, Editors — BIBLIO selects references from a pre-existing text file with a list of bibliographic references. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 935)

Bibliographies See *Word Processor and Text Utilities.*

Bids and Estimating See *Quotes, Bids, and Estimating.*

Big Rig Catch the feeling of driving cross country in a big rig without getting tickets, falling asleep, or getting caught having too much weight on your truck. See "Games Galore" listed under *Games, Arcade.*

Billing and Invoicing See *Accounting, Billing.*

BillPower Plus Integrated timekeeping, bookkeeping, and billing system. A single-entry program, it tracks 15 employees and thousands of clients. See *Accounting, Time-Billing Management.*
(PC-SIG Disk#'s 1168, 1169)

Bills of Materials See *Accounting, Job Costing and Bill of Materials.*

Biorhythm Monthly Schedule Program Calculate the biorhythms of anyone born after 1753. Or enter your lover's birthdate and compare biorhythms to see how compatible you really are! See *Health Management.*
(PC-SIG Disk# 879)

BIOS (Basic Input/Output System) The part of the system that controls exchange of data between the computer processor, disk drives, and the keyboard and screen. In the early days of MS-DOS computers, different BIOSs were a primary reason for incompatibilities. In MS-DOS computers, BIOS routines are stored in a chip.

BIOS Inspection See *Utilities, System or Hardware.*

Bit This term is short for binary digit and is really the key to understanding how computers work. A bit is the smallest piece of information used by a computer and is actually the only thing it really understands. A bit is represented by either a zero or a one and that is determined by whether a spot on a magnetized disk is positively or negatively charged. Through a system of counting called binary, the computer can count to infinity even though it only knows two numbers, zero and one. It works much the same with our regular system of counting; we only have ten numbers but we can use them to count as high as we want.

Black Magic A hypertext wordprocessor which lets you link graphic or text data to other data in several ways, creating many layers of information. See *Hypertext.*
(PC-SIG Disk#'s 1120, 1121, 1122)

BlackBeard A programmer's editor with some sophisticated wordprocessing features. On-line help and menus make for easier access to functions. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 611)

BlackJack Play BLACKJACK with as many options as in the casinos. Sorry — no free drinks. See *Games, Cards.*
(PC-SIG Disk# 1329)

BlackJack! Learn basic strategy and card counting to beat the odds at the world's best casinos. Play alone or alongside three other players. See *Games, Cards.*
(PC-SIG Disk# 1283)

Blanker, Screen See *Utilities, System or Hardware.*

Blind, Programs for See *Visually Impaired, Programs.*

Board Games A trio of classic board games: PC-Pente, Pyramids and Yahtzee. See *Games, Board and Dice.*
(PC-SIG Disk# 993)

Boat Box Electronic flash cards for reading. Attractive drills for children, ages 3-7, requiring parent participation. Missed words are recycled until child succeeds. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 1466)

Bonds, Stocks, and Investments See *Investment Management.*

Book Minder Catalog your library of books, magazines, and newspapers. Quickly find that needed article or reference. See *Library Record Keeping (Including Dewey Decimal).*
(PC-SIG Disk# 1178)

Book Report Arrange your thoughts and create the structure of your book report with this organizer. See *Writing and Composition Aids.*
(PC-SIG Disk# 1088)

Bookkeeping See *Accounting, G/L, A/P, A/R, Payroll.*

Bookmaking, Sports See *Gambling.*

Books on Disk See *Reference Materials (books/articles/information/data).*

Boot/Boot Disk Booting is the act of powering up a computer system and loading the operating system. The computer reads the operating system software on the boot disk. A cold boot refers to powering up the whole system after turning off power. When you hit the Ctrl, Alt and Del keys at the same time, you warm boot your computer. That is, you invoke your DOS system without turning off the power to the computer.

Bowl - 101 Does all of the work of maintaining the records for your bowling league. Pairs teams for you, handles high team and individual games and series, scratch and handicapped, mixed or not, and keeps averages. See *Sports Management.*
(PC-SIG Disk# 1246)

Bowling League Secretary Total record keeping for your bowling league. Handles 24 teams of nine bowlers each for a 50 week series. See *Sports Management.*
(PC-SIG Disk# 23)

Bowling League Secretary's System Prepare weekly standings, book average listings, final team/bowler standings, and individual team/bowler record sheets. Take the tedium out of a time-consuming and, sometimes, thankless task. See *Sports Management.*
(PC-SIG Disk# 884)

Bowling, Record Keeping See *Sports Management.*

BOX BOX is a screen-designing tool that lets you quickly create entry screens, help screens, and menus. See *Programming, Tools.*
(PC-SIG Disk# 842)

Boyan Communications Communicate via modem at 300 to 9600 baud with menued ease for accessing bulletin boards or E-mail. Twenty number redialing queue, on-line gossip mode, usage log, automated calling and more! See *Communication Programs.*
(PC-SIG Disk#'s 1206, 1343)

Bradford Create great-looking printing on your dot-matrix printer including headers, footers, superscripts and subscripts. Perfect for foreign languages like Russian and Hebrew. See Printer Managers.
(PC-SIG Disk# 1053)

Brain, The BBS users — THE BRAIN will make those tedious call-backs for you, pick up your mail and attend to your computer when you're not there. See *Communication Programs.*
(PC-SIG Disk# 752)

Brandon's Lunchbox Primary colors and happy music enhance six programs that drill children, ages 3-7, in basics such as addition, number sequences and letter matching. See Children's Programs (ages 2-10).
(PC-SIG Disk# 1465)

Breaker BREAKER "breaks" any ASCII file into any number of smaller files. It can also reverse the process by putting the files together. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 978)

Breakout Break the bricks without breaking your nerves. Test your hand-eye coordination by playing BREAKOUT. See "Brian's Games" listed under *Games, Arcade.*

Brian's Games Arcade selections: Breakout, Castle, Pacman, Space Invaders, Lunar Lander, And Others! See *Games, Arcade.*
(pc-sig Disk# 274)

Bridge Play against the computer and see what you can do with the cards dealt to you. See "Follies" listed under *Games, Arcade.*

Bridge Game, The A game that lets you practice playing bridge against yourself or against a computer opponent. Have fun and learn strategy at the same time. See *Games, Cards.*
(PC-SIG Disk# 890)

Bridge, Contract See *Games, Cards.*

BridgePal A computerized version of the classic card game bridge — to learn, practice, or just enjoy. See *Games, Cards.*
(PC-SIG Disk# 780)

Browse Browse through any size text file using your cursor keys. Much better than the DOS TYPE command. See "Best Utilities" listed under *File Management Utilities.*

Budget Baseball Bring baseball to your den! As team manager replay a World Series game or pit a Series contender of one year against a team from another. See Games, Arcade (Sports).
(PC-SIG Disk# 1400)

Budgeting, Business See *Accounting, G/L, A/P, A/R, Payroll.*

Budgeting, Home See *Accounting, Checkbook Management — Home.*

Budgetrak Encumbrance accounting keeps track of your obligations and planned expenses for tighter budgeting and cash flow. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk#'s 519, 520)

Buffer A buffer is memory, usually a small section of RAM, used for temporary storage. Sometimes data might be held in a buffer during data transfer. Other times, it might be held there while it is being manipulated by a database or other program.

Bug A bug refers to an error in a program.

Bugs Kill the bugs that fall from the sky before they kill you. A good Centipede arcade clone. See "Patrick's Best Games" listed under *Games, Arcade.*

Building Costs, Construction See *Reference Materials (books/articles/information/data).*

Building Life Cycle Cost program Compares building systems and the price of alternative designs due to energy costs. Evaluate design/construction costs of energy conservation measures and compare to the energy savings projected in the future. See Reference Materials (books/articles/information/data).
(PC-SIG Disk# 572)

Bulletin Board Systems (BBS)

■ FindBBS

FINDBBS provides you with quick access to hundreds of bulletin board systems' (BBS) phone numbers across the nation. Dial up and log-on. It also serves as the BBS search door for Wildcat! BBS (PC-SIG Disk#'s 745 and 746).
(PC-SIG Disk# 1370)
Special Requirements: *Modem.*
Author Registration: *None.*

■ Fora

FORA is a multi-user chat BBS system. It lets up to 17 people communicate simultaneously at up to 2400 baud, chatting as a group or privately with each other.

Use FORA to set up your own bulletin board or use it as a service for your business. It requires at least eight phone lines installed where it is used and can be located in an area where many people can dial in toll-free. FORA has extensive documentation with guidelines on finding a location for your system, purchasing the hardware needed, and installing it into your system.
(PC-SIG Disk# 948)
Special Requirements: *640K RAM, two floppy drives, and a modem.*
Author Registration: *$1.00 and up.*

■ Mubbs

The MUBBS program supports up to four users and a system administrator at one time. Depending upon the host machine speed and number of ports used, 300 to 9600 baud can be maintained. With over 32,000 possible menus and nine options per menu almost 300,000 different user options can be created. Such advanced functions as private mail, conference mode, and file transfer (ASCII and XModem checksum protocols) are included.

This package is perfect for the small company or individual who wants to have a state of the art BBS. Watch out CompuServe!
(PC-SIG Disk# 1458)
Special Requirements: *One serial port per user and a Hayes compatible modem.*
Author Registration: *$79.00*

■ RBBS-PC

The RBBS is the bulletin board system of choice for many IBM PC bulletin boards. It is a large system on four disks and supports the PC-SIG Library on CD ROM.

RBBS-PC's internal structure continued to become significantly more modularized and structured. Major enhancements included a File Management System for directories, additional file exchange protocols, support for managing subscriptions, the ability to run as a local application on a network, configurable command letters, the ability to use any field or to define a new field to identify callers, the ability to individuate callers having the same ID, multiple uploads on a single command line, new A)nswer and V)erbose ARC list commands, and context sensitive help. Source code is included.

(PC-SIG Disk#'s 212, 334, 621, 622)

Special Requirements: *A hard drive and modem.*
Author Registration: *None*

■ Search Light BBS

Looking for a bulletin board system that's both powerful and easy-to-use? Take a look a SEARCHLIGHT BBS.

Unlike other bulletin board systems, SEARCHLIGHT BBS is user friendly with both you (the system operator) and those who call in to your system. It has an easy to understand menu command system, so users who call in to your system need no documentation or help from you to use the bulletin board system. If any help is needed, the program has an on-line help system. Moreover, it has some significant features, such as optional ANSI graphics and color selections for the screen, customized menus, public message boards, private mail, a full-screen text editor (compatible with WordStar commands), and a file transfer system with both Xmodem and Ymodem transfer protocols.

SEARCHLIGHT BBS has password protection and 255 levels of security, letting you control access to your system. Like other bulletin boards, this one can be left unattended while callers leave messages and transfer files to and from your board. The program lets you specify an upload/download ratio for all who use the file transfer system, so there is a fair trade-off of programs.

There is a complete electronic mail system with up to 24 message subsections, each with up to 300 messages. SEARCHLIGHT BBS has enough system operator utilities so you can easily manage the system from a remote location, and also shell to DOS to run a program or DOS command.

(PC-SIG Disk#'s 1136, 1137)

Special Requirements: *Modem.*
Author Registration: *$35.00 to $95.00.*

■ Wildcat BBS

WILDCAT is a bulletin board system (BBS) from those clever folks at Mustang Software. This is easy to set up and use, yet more powerful than most other BBSs. It supports all of the most popular file-transfer methods such as Xmodem, Xmodem (CRC), and Ymodem.

The security system built into WILDCAT was designed to give the kind of security the business community needs to protect sensitive business information. This heavy security can easily be left out by the system operator when setting up the program (or anytime thereafter). In fact, changing any of the parameters within WILDCAT is as simple as running a maintenance program and paging through the various choices, making any changes you want.

The program supports ANSI-style graphics, although you can leave them out if you do not want them. The documentation provided is very clear and concise. Even an inexperienced user can set up and run this program in short order.

(PC-SIG Disk#'s 745, 746)

Special Requirements: *512K RAM and a hard drive.*
Author Registration: *$129.00*
➤***ASP member.***

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Bulletin Board Systems for Adventure Games See *Games, Adventure and Text.*

Burn-In Puts your new PC through a physical to stress-test for problems before your warranty runs out. See *Utilities, System or Hardware.*
(PC-SIG Disk# 1335)

Bus The bus is the wiring which constitutes the main communication path for data in a computer. It consists of parallel wires hooking the main processor, RAM memory, disk drives, and all input-output devices together.

Business and Moral Values, 4th Edition This is a bibliography of business ethics and moral values. Includes references from texts, books, syllabi collections, and AV materials compiled by Dr. Kenneth Bond of Creighton University. See *Reference Materials (books/articles/information/data).*

(PC-SIG Disk#'s 506, 1018)

Business Specific Systems

■ Chiro Patient Tracking System

CHIRO tracks your patients for you, including all personal information. it keeps a record of visits and what you did during those visits, as well as a current total of the patient's bill. CHIRO is menu-driven and has on-line help. The two main functions of the program are to print claim forms and to maintain a patient database with a permanent record of office visits, diagnosis history, and charges.

Database records can be created, displayed, modified, deleted, searched, and printed. All functions are selected through the main menu. As new records are created, the system automatically sorts the records in alphabetical order.

(PC-SIG Disk# 1044)

Special Requirements: *512K RAM, a hard drive, and a printer.*
Author Registration: *$60.00*

■ Dental P.M.S

DENTAL PATIENT MANAGEMENT SYSTEM (DPMS) tracks treatments and manages accounts receivable, insurance, patient billing, and follow-up information. Insurance company information, complete patient information, and procedure details are integrated. Information need be entered only once; data from insurance forms is automatically posted to a patient's account receivable records. DPMS uses common computer forms such as an attending dentist's statement and the NEBS patient billing form. Entering a patient procedure automatically updates billing information including charges. Invoicing can be done in four keystrokes.

DPMS's biggest strengths are patient tracking, and generating written and telephone follow-up reminders, as well as inactive patient lists. Patient files can be read by most wordprocessors to generate labels and form letters. Most routine procedures are included, and more can be added.

(PC-SIG Disk#'s 1251, 1252, 1253, 1254, 1255)

Special Requirements: *512K RAM and a hard drive.*
Author Registration: *$125.00*

■ Litigex

Designed for attorneys, LITIGEX packs the power to document and sort through caseloads full of research material to find vital evidence.

A research, document, and evidence organizer, LITIGEX lets you enter notes on evidence or other research, and file up to an 11 line summary according to source, page, line number, and subject. Notes can be chained together if 11 lines are inadequate. Using up to 32,000 entries per hard disk, LITIGEX can file the data under 500 subjects or types. Keep tabs on documents or other evidence including who sent it, where it is located, and where and when it was found.

Scan and find tools are fast and accurate and enable you to sort through massive files for obscure bits of incriminating data. The program uses ASCII, making it compatible with your wordprocessor.

(PC-SIG Disk# 1272)

Special Requirements: *CGA and a hard drive.*
Author Registration: *$50.00*

■ Service Plus

Maintenance and repair companies will find SERVICE PLUS a valuable system to organize, control and track service calls, and generate expense and billing reports. It converts often forgotten verbal commitments into focused, daily appointment and callback lists that result in extra business.

SERVICE PLUS generates appointment schedules with a tickler file, and billing and expense reports that can clock and cost each activity. You can create an "industry-specific" help screen with up to 15,000 characters of text about your industry, accessible anywhere in the program with one single keystroke. SERVICE PLUS standardizes your maintenance and service call information.

The following business types have found SERVICE PLUS a valuable system: heating/air conditioning repair, electrical maintenance, auto repair, computer/copier rental and repair, any equipment tracking or maintenance, plant preventive maintenance, plumbing, bus or taxi maintenance, any repair business with a service bay, plus any department that provides product service and support.

SERVICE PLUS comes with a tutorial and is extensively documented.

(PC-SIG Disk#'s 1270, 1271)

Special Requirements: *640K RAM and two floppy drives.*

Author Registration: *$99.00*

■ Winning Bid, The

I have a dollar, do I have two dollars? Two dollars, two dollars... sold!

THE WINNING BID is a bonanza for both professionals and amateurs turning to auctions to raise big bucks. It lets you trace merchandise from donors or the house on through to the purchaser, reporting who receives what, and how much was the bid price. The 70-page manual tutors hobbyists on how to set up and operate this profitable fundraiser.

THE WINNING BID records sellers or donors, and consigned merchandise, providing pre-sale receipts. Post-sale statements double as receipts for tax purposes and allow buyers to pick up merchandise. Merchandise lots are tagged with lot numbers, a description, and minimum bid if needed. Date, time, and amount of sales are recorded along with the buyers' identities.

The program prints paddle numbers in advance, and tracks buyers by paddle number and the merchandise they bought, and even adds sales tax where appropriate. It can combine lots, track bids made under the minimum and record seller alterations to bid prices after the sale is complete. Buyers can close and pay for their purchases at any time during the auction or after its completion. Likewise, sellers can be paid at any time or limited to payment when the purchasers of their merchandise pay.

(PC-SIG Disk# 1388)

Special Requirements: *Printer.*

Author Registration: *$25.00*

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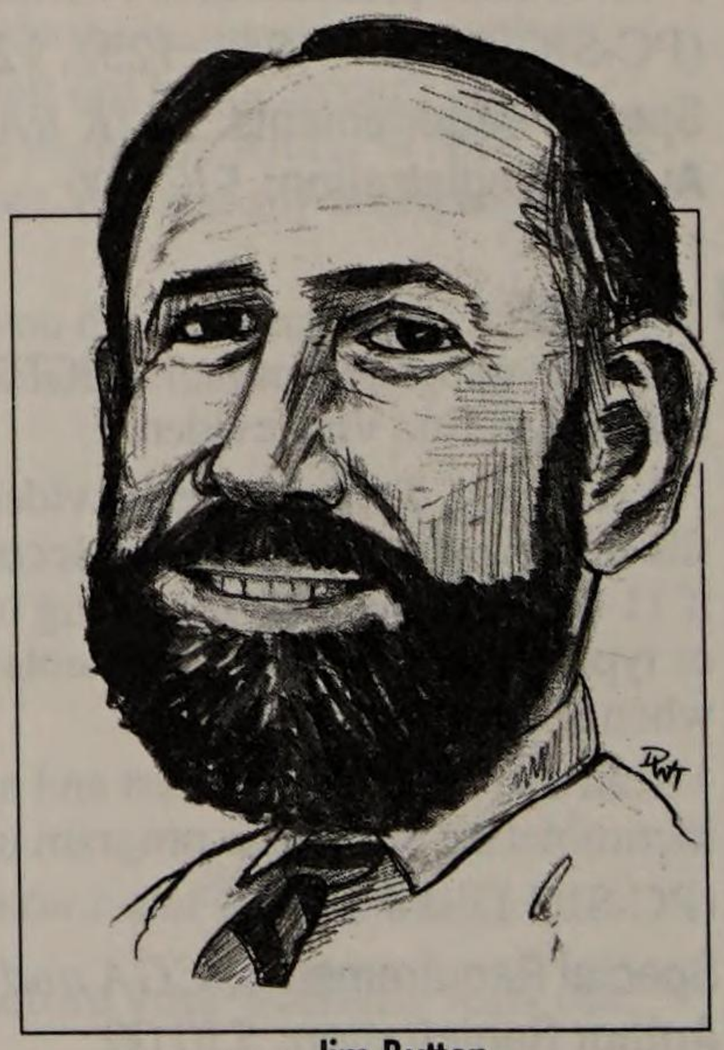


Jim Button

ButtonWare One of the leading shareware companies founded by programmer Jim Button. Though they have many software products, PC-FILE+ is their renowned database. See "PC-File+" listed under *Databases*.

Byte A byte is the number of bits a computer takes to represent a single character or word. Most computers combine eight bits to designate a letter of the alphabet or some other character. Remember, eight bits to a byte.

C

C A very popular general-purpose computer programming language developed in the 1970s. For programs see *Programming, C.*

C Adventure A fine Dungeons and Dragons game written in C with source code included. See Programming, C.
(PC-SIG Disk# 259)

C Programming See *Programming, C.*

C TUTOR A comprehensive tutorial on programming in C which assumes a moderate amount of programming expertise. C source code is included. See *Programming, C.*
(PC-SIG Disk#'s 577, 578)

C Utilities, Volume 2 A disk full of timesaving routines for screen-handling and DOS interfaces in the C language. See *Programming, C.*
(PC-SIG Disk# 216)

C-A-S-E Accounting Accounting system for small to mid-size companies which includes: cash and credit sales journals, invoicing, accounts payable, general ledger, payroll and capital equipment. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk#'s 1115, 1116)

C-Window A nice utility that will make programming windows in Turbo C much easier. See "Miscellaneous Utilities for Programmers" listed under *Programming, C.*

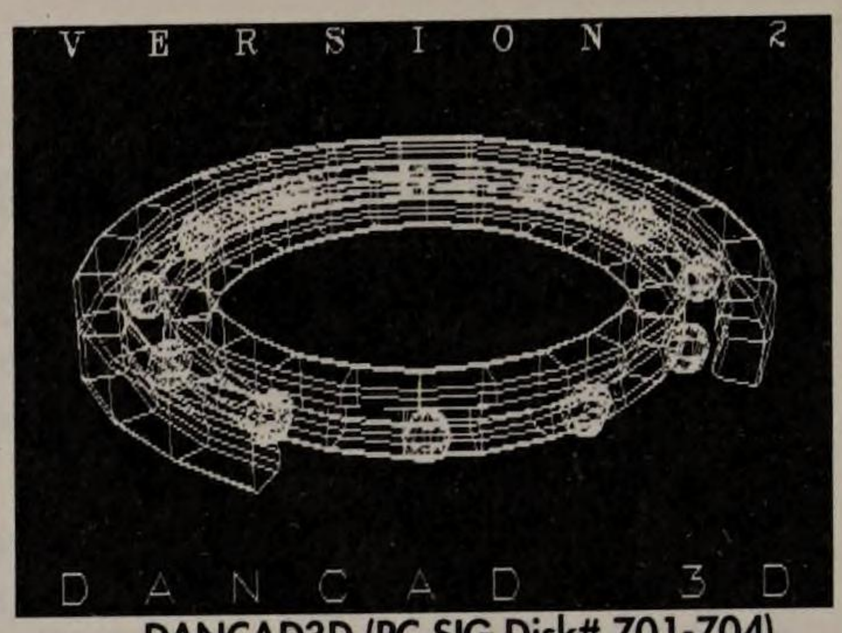
C-Window Toolkit For C programmers — add full screen, color, cursor control, and windows to your programs without the need for complex programming. See *Programming, C.*
(PC-SIG Disk# 1007)

Cache The act of storing data in RAM so your program won't need to read it from a slow device like a floppy disk every time it is needed. For instance, a program might load a large portion of a data file from a database into RAM so that the computer wouldn't pause to read the floppy disk each time the data is changed. For programs see *Utilities, System or Hardware.*

CAD (Computer Aided Design) and Designing

■ DANCAD3D

DANCAD3D is an excellent and versatile drawing program that lets you do very complex things like stereoscopic 3D wire-frame drawing, or very simple things like designing letterheads. You can draw in two and three dimensions. You can separate groups of lines into "elements" that can be saved, loaded, magnified, rotated, flipped, offset (moved), and used over and over again, by keeping them as a file on a disk (give them names like cube, sphere, and cylinder).



DANCAD3D (PC-SIG Disk# 701-704)

DANCAD3D prints surprisingly sharp, crisp lines on Epson-IBM compatible dot matrix printers. It is useful for many different applications including the following:

- Mechanical drawings and technical illustrations
- Business forms of many kinds
- Page layouts which combine text and drawings
- Automatic computer slide shows
- Engineering simulation to verify the fit of three-dimensional shapes

DANCAD3D also supports many plotters, PostScript laser printers, and image setters such as the Linotronic 300. It also works with mouse, 3-D track ball, or cursor keys.

DANCAD3D also includes the DANMOVIE program, a full demonstration, and its documentation.

DANMOVIE is a very useful engineering tool since you can program DANCAD3D to make an animated close-up of parts in a layout drawing. With this close-up you can confirm the fit of moving parts. You can also program DANCAD3D to produce an animated perspective view of the whole assembly with all its parts in motion.

(PC-SIG Disk#'s 701, 702, 703, 704)

Special Requirements: *CGA, EGA, or Hercules graphics.*
Author Registration: *$45.00*

User Comments: *"Excellent. Beats the $100 commercial program." "Great CAD Program."*

■ Droege

DROEGE - Design Robot for Origination of Exacting Graphic Engineering - was created for designing printed circuit photomasters.

It is a manual CAD system, which means it does nothing automatically, such as schematic capture, wire listing, routing, parts lists, etc. It does provide a computer-aided equivalent of a taped master or drawing board with the advantage that things are always in perfect registration and one can work on selected layers.

General features are a 65" x 65" working area 12 layers deep. Resolution over this area is 0.001". The output can be scaled, however, so what is really provided is a 65,000 X 65,000 point working space. The layers can be turned on and off and assigned any available color. Lines, pads, symbols, arcs and labels can be entered. The symbol feature is particularly powerful since symbols can be nested to as many as 20 levels, allowing construction of very complex objects with a few keystrokes.

Note: This program has a limited documentation file, so it is recommended that you have some experience with designing printed circuit boards and CAD systems.

(PC-SIG Disk#'s 904, 905)

Special Requirements: *320K RAM, CGA, and Epson or compatible printer.*
Author Registration: *$25.00*

■ EDRAW

EDRAW is a sophisticated graphics program that allows you to draw electronic schematics, block diagrams, and flow charts. Originally designed for technical people such as engineers, teachers, and students, it can even be used to lay out a printed circuit board!

The program features several text fonts which can be incorporated into any drawing or diagram. Besides drawing lines, boxes, circles, and symbols, the program includes logic/electronic symbols enabling a user to draw electronic circuits. EDRAW is a must for anyone who has specific drawing or graphic needs.

(PC-SIG Disk# 828)

Special Requirements: *320K RAM and CGA.*
Author Registration: *$49.95*

User Comments: *"Good drawing program, good documentation on disk and easy to use once you get used to it." "Great for storing science diagrams. I can't wait to use it again. Mouse support was great!" "It creates excellent drawings for electronics with many electrical symbols already on disk."*

■ Image 3-D

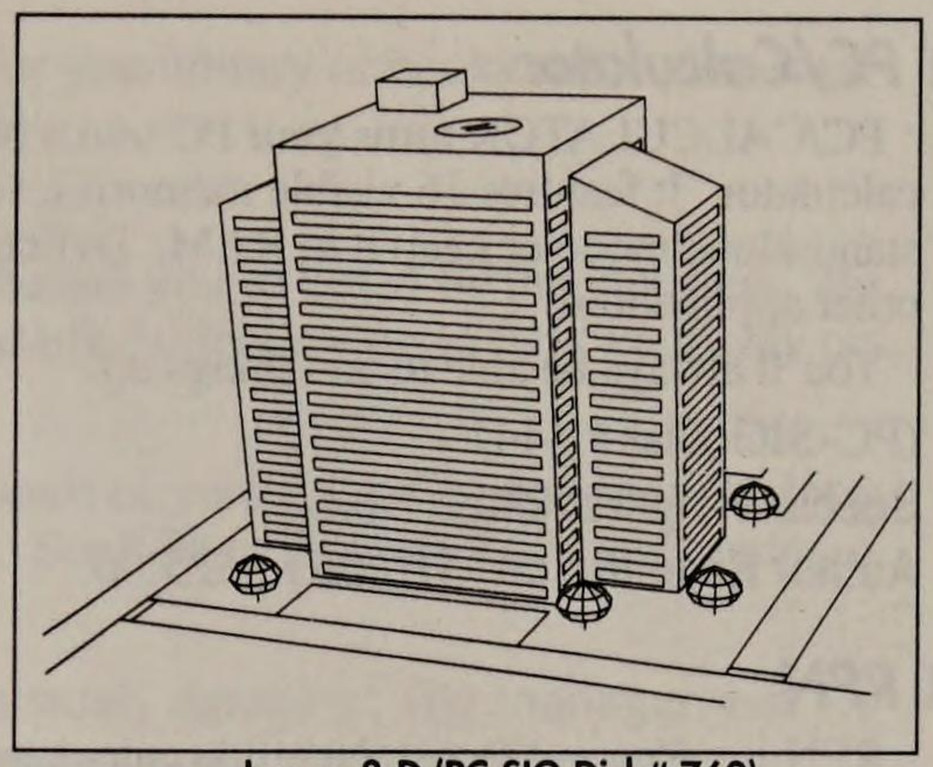


Image 3-D (PC-SIG Disk# 762)

IMAGE 3-D is a three-dimensional, wire-frame modeling program that lets you design, view, and edit three-dimensional objects. It features a vertical menu on the right side of the screen, letting you easily select commands for many design and viewing tasks. You can move, scale, and rotate images any way you choose, making the program suitable for many creative design and illustration applications. IMAGE 3-D can also create images from any viewpoint around your image.

Drawing units and rotation increments are user-selectable, and portions of the screen can be enlarged or magnified, letting you quickly see the image you are drawing. IMAGE 3-D also lets you scale each axis independently, so images can be stretched or condensed in height, width, or length.

(PC-SIG Disk# 762)

Special Requirements: *512K RAM and CGA, EGA, or VGA.*
Author Registration: *$25.00*

User Comments: *"IMAGE-3D disk performed quite well. Its menu-driven interface enabled me to quickly choose the commands and perform a large variety of design and illustration tasks." "Fun to use. Helps me at work."*

■ PC-Draft II

A high-resolution pixel-oriented utility designed for drawing and drafting. Built-in functions let you draw circles, lines, and boxes; load and edit fonts; create bar, line, and pie graphs; create patterns to fill areas; cut and paste objects; and save objects to files for later use. You can record graphic keyboard macros saved in files for later playback and animation effects. Maximum resolution is 1280 by 700 dots, which covers several screens and fills an 8-1/2" x 11" paper (at 150 dots-per-inch resolution).

CAPTURE.COM lets you capture screen images from other programs, save them in separate files, and load them into PC-DRAFT. Export portions of the screen, full screens and/or full-sized drawings in GEM.IMG file format. This lets you include graphics created with, or captured by PC-DRAFT directly into desktop publishing documents, such as those created with Ventura Publisher.

(PC-SIG Disk# 1060)

Special Requirements: *CGA.*
Author Registration: *$45.00*

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CAD (Computer Aided Design) Use of a computer to help engineers, architects, or draftsmen design structures and devices and display their plans during the process. A CAD program allows a computer user to substitute graphics, light pens, and mouses for pencils and paper. For programs see *CAD (Computer Aided Design) and Designing*.

Calculators

■ HDBCalc

HBDCALC is a 16-bit calculator made for programmers. It performs calculations entered in hexadecimal, decimal, or binary, or a mix of the three and shows the answer in all three number bases. Converting a number from one base to another is instantly done. Both mathematical and logical operations are handled, including add, subtract, SHR, SHL, AND, NOT, XOR, and OR functions.

(PC-SIG Disk# 1385)

Special Requirements: *None.*
Author Registration: *$10.00*

■ PC/Calculator

PC/CALCULATOR turns your PC into a programmable multi-function RPN (Reverse Polish Notation) calculator. It features 16 visible memories, seven function key modes, and 14 number display formats. Run it in stand-alone mode or keep it in RAM. Define a "pop-up" key and call your calculator while inside any of your other applications.

You'll always be able to add things up!

(PC-SIG Disk# 444)

Special Requirements: *None.*
Author Registration: *$10.00 to $25.00.*

■ RPN

RPN is a Reverse Polish Notation calculator based on a fully visible stack. This program can be of use to programmers and computer specialists in their working environment.

(PC-SIG Disk# 874)

Special Requirements: *360K RAM.*
Author Registration: *$10.00*

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Calculus See *Math and Geometry Programs.*

Calendars See *Schedulers, Calendars, To Do Lists, and Ticklers.*

CAM (Computer Aided Manufacturing) Use of a computer in a manufacturing process. Sometimes, CAD and CAM are combined for the term CADCAM. For programs see *CAD (Computer Aided Design) and Designing.*

Cambridge Thoroughbred Handicapper Makes picking horses easier than ever. Predict a racer's performance based on an analysis of the animal's history. See *Gambling.*

(PC-SIG Disk# 918)

Cantonese Tutor CANTONESE TUTOR teaches vocabulary and pronunciation, and is designed for use with other forms of Chinese language study. Can be adapted to Mandarin. See *Language Study, Foreign.*

(PC-SIG Disk# 755)

Cantonese, Educational See *Language Study, Foreign.*

CAPP CAPP helps you find errors in your C or Pascal program by printing a formatted output of the source code. See *Programming, Tools.*

(PC-SIG Disk# 1176)

Card Game Collection A full house of intriguing card games for the enthusiast: Casino and Solitaire Poker, Acey Duecy, and Accordion Solitaire. See *Games, Cards.*

(PC-SIG Disk# 1280)

Cashflow CASHFLOW is an integrated, menu-driven, practical budgeting tool that can simplify home record keeping by calculating checks and balancing the checkbook. See *Accounting, Checkbook Management — Home.*

(PC-SIG Disk# 887)

CASHTRAC Manage home, club, and small business checking, savings, and investment accounts. See *Accounting, Checkbook Management — Home.*

(PC-SIG Disk# 164)

Casino, Games See *Games, Cards.*

Cassy Creates a catalog, based on the Dewey Decimal System, for your library of books and audiovisual material. See *Library Record Keeping (Including Dewey Decimal).*
(PC-SIG Disk# 1091)

Castle Gather valuable jewels and antiques in an age old castle before you're killed by the monsters. Be sure and get the hidden key though, or you'll spend the rest of your life futilely trying to fight your way out. See "Patrick's Best Games" listed under *Games, Arcade.*

Castle Droganya The evil Lord Droganya captured the souls of your fellow countrymen, and it is up to you to save them before it's too late. A text adventure game. See "Game Fun for All" listed under *Games, Cards.*

Catalist A feature-rich mailing list system that combines a small database, file manager, list manager and six sort routines. See Mail Lists, Address Managers, and Telephone Organizers.
(PC-SIG Disk#'s 864, 865)

Catalog Create a catalog or library listing for each of your disks. CATALOG reads the volume label and directory of each disk and transfers the data into an ASCII file for importing into your database. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 1312)

Catalogers, Disk See *Disk Catalogers and Disk Labelers.*

Cataloging System for Record Collectors Catalog all your records, CDs, and audio tapes to quickly locate your favorite selections. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1104)

Catcher A game for the visually impaired. Catch falling objects with a paddle at the bottom of the screen. Designed for use with a speech synthesizer. See *Visually Impaired, Programs.*
(PC-SIG Disk# 732)

Cavequest Take on new roles in this complex adventure game. Unexpected twists and turns make this one a special treat. See *Games, Adventure and Text.*
(PC-SIG Disk# 451)

CC-Surveyor Designed for civil engineers and land surveyors, CC-SURVEYOR transforms field survey notes and points into building and lot layouts. See *Engineering.*
(PC-SIG Disk#'s 926, 1029)

CD ROM (Compact Disc Read-Only Memory) A method of computer data storage that uses light in the same way an audio compact disc does. A computer CD ROM disc looks identical to an audio CD. In fact, most computer CD players (sometimes called CD players) allow you to play audio CDs in them. CDs can only be read by a CD ROM player, not written to (thus the "read-only memory"). CR-ROM discs hold a tremendous amount of information, 550 megabytes. In fact, the entire PC-SIG Library of shareware is available on one CD ROM disc.

CDMASTER Catalogs your compact disc collection and prints labels, case inserts, and index cards to help organize your music. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1439)

Cell The space where a row and column in an electronic spreadsheet overlap is called a cell. Spreadsheet programs let you put data, descriptors, mathematical formulas, or the results of computations in cells. Spreadsheets are often rated by the number of cells they contain. For programs see Spreadsheets.

Cell Systems Graphically simulates the growth of simple biological systems and creates beautiful and mathematically significant patterns. See *Fractals and Mathematic Based Graphics.*
(PC-SIG Disk# 1109)

CGA (Color Graphics Adaptor) A graphics hardware standard that enables an IBM compatible personal computer to display color and limited graphics. The CGA was designed for graphic applications like drawing programs and video games. The clarity is not as good as EGA (Enhanced Graphics Adapter) or Hercules graphics.

CGA Emulation See *Utilities, System or Hardware*.

Charge Account Manager Wondering where the money is going? Take control of your charge accounts, analyze your expenditures, and track the interest you pay. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 1167)

Charge Account Reconciliation See *Accounting, Checkbook Management — Home*.

CHASM An inexpensive assembler for students of Assembly language. See Programming, Assembly.
(PC-SIG Disk# 10)

Checkbook Management Helps you track all transactions and walks you through reconciling the bank statement. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 393)

Checkbook Management, Business See *Accounting, Checkbook Management — Business*.

Checkbook Management, Home See *Accounting, Checkbook Management — Home*.

Checkbook System Keep track of where your hard-earned money is going and balance your checkbook with this checkbook manager. Control up to ten accounts. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 397)

CheckBooks & Budgets Plus Control your money, checkbook, and budget. Many features, including help function, ease your way into fiscal responsibility. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk#'s 1126, 1197)

Checkbooks and Budgets Lets you not only keep track of your personal checking accounts but also automatically sets aside money for your budget. See Accounting, Checkbook Management — Home.
(PC-SIG Disk# 735)

Checking Account Reconcilation, Business See Accounting, Checkbook Management — Business.

Checking Account Reconcilation, Home See *Accounting, Checkbook Management — Home*.

CheckMate Keep track of cashflow, expenses, budgets and assets. Manage up to 255 separate accounts — checking, charge, and loans. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 784)

CheckMate-GL A powerful multiple-entry general ledger package that operates on the principles of classical accounting. See *Accounting, G/L, A/P, A/R, Payroll*.
(PC-SIG Disk# 785)

Chemical Modeling See *Chemistry and Physics*.

Chemical Molecular Modeling Construct and manipulate 3-D models of chemical elements on your PC! See *Chemistry and Physics*.
(PC-SIG Disk# 938)

Chemistry and Physics

■ Chemical Molecular Modeling

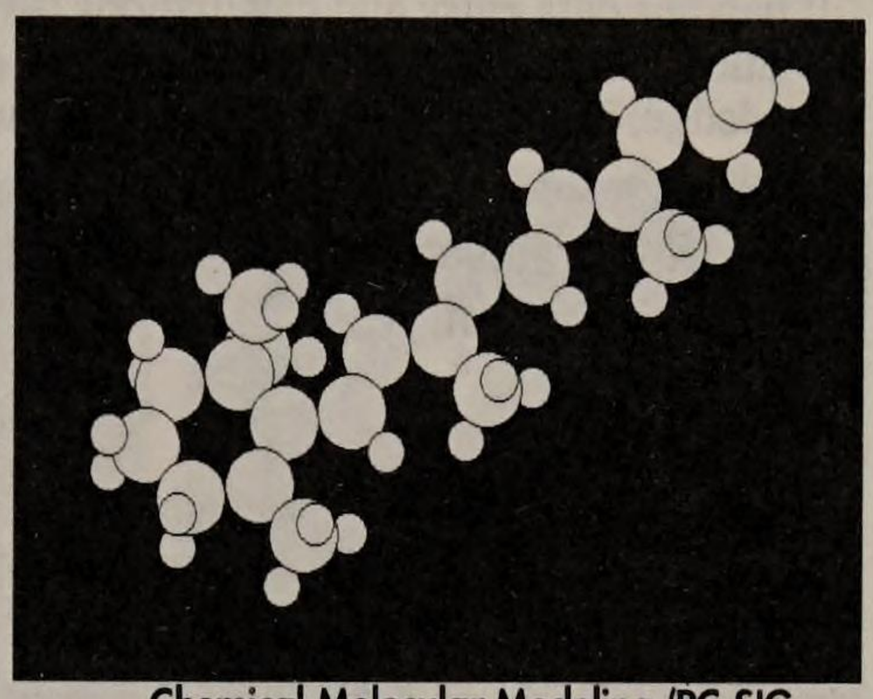
CHEMICAL is a molecular-modeling program for 3-D representations of chemical elements.

Select atoms from the Periodic Table and the program retrieves the electron orbital information. The atoms can be bonded into molecules, and the molecules bonded with other molecules to make large chemical structures. The chemical is displayed as it is constructed, and when formed, can be rotated and viewed. The hybrid and ionize commands can be used to alter the orbitals before bonding. Read, write, and view a chemical data file from the disk. CHEMICAL also has a help function and a tutorial.

Included is CHEMVIEW (an EGA-only function), a companion program that shows three-dimensional animation of the models made with CHEMICAL.

(PC-SIG Disk# 938)

Special Requirements: *640K RAM and CGA or EGA.*
Author Registration: *$20.00*



Chemical Molecular Modeling (PC-SIG Disk#938)

User Comments: *"Very interesting program. Excellent graphics. Knowledge of chemistry needed to appreciate." "Good for illustration. Neat aid to visualize structures." "Good for small molecules but too cumbersome for organic chemistry beyond or one or two carbons."*

■ Crystal

Generate and view 3-D models of crystals. The built-in editor allows you to modify crystal structures from the included library or construct entirely new ones.

Sample crystal files are included on this disk, and new crystal structures may be created by modifying these files or by making an entirely new file. CRYSTAL has complete built-in editing capabilities. When viewing a crystal structure, you may rotate the model on the x, y and z axis using the cursor pad. This disk also has some data files of crystals for use by CHEMICAL and CHEMVIEW, which are two excellent companion programs to CRYSTAL. CRYSTAL, however, works independently of these programs.

(PC-SIG Disk# 1469)

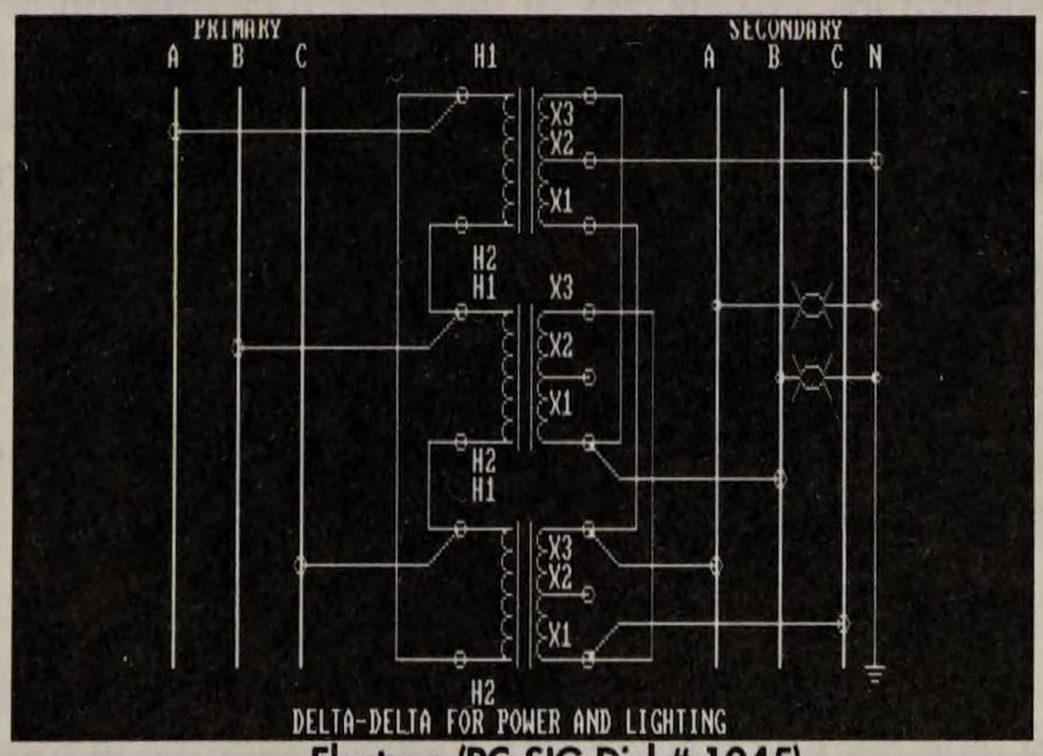
Special Requirements: *None.*
Author Registration: *$20.00*

■ Electron

Great for electrical engineers, technicians, and hobbyists. ELECTRON helps solve electrical equations, perform various electronic and electrical calculations, and display many different diagrams of motors, transformers, etc. on a graphic monitor. Electronic calculations are available for the D.C. Ohm's law, parallel resister, resonant frequencies, decibels, and resistance for ammeters. Electrical calculations are included for true power, watts, ohms, RPM, and frequency. Various tables, such as a standard wire size table, are also available.

(PC-SIG Disk# 1045)

Special Requirements: *CGA.*
Author Registration: *$10.00*



Electron (PC-SIG Disk# 1045)

■ Labcoat

LABCOAT, a laboratory data and cost analysis program, helps you manage a clinical lab. You can calculate item depreciation and evaluate extensive-test cost data for your equipment. Routine lab statistics are included.

It handles data entry and calculations for lipoprotein data. You can calculate numerical data, mean and standard deviation, and range. Also included is an evaluation program for lab assistants, based on criteria such as job knowledge, judgment decisions, patient awareness, organization, and such.

(PC-SIG Disk# 932)

Special Requirements: *None.*
Author Registration: *None.*

■ MSFORMS

MSFORMS and its utility program, NAMES, reads a QUAN report from a Finnigan(tm) mass spectrometer and produces a finished report for given classes of target compound analysis (TCA) suitable for presentation to a client.

Attach the RS-232 communications cable that runs from the GC/MS NOVA computer to the Tektronix/Westward system terminal of the NOVA to the serial port of your PC. Load a suitable terminal emulator program in your PC and capture the FINNIGAN TCA QUAN reports as individual ASCII files.

MSFORMS is then loaded and the QUAN filenames passed to the program, along with other information, including matrix type and dilution factors. MSFORMS processes it and prints an analysis form suitable for delivering to a client.

(PC-SIG Disk# 970)

Special Requirements: *512K RAM, two floppy drives, and a printer.*
Author Registration: *$50.00*

■ Nuclear Magnetic Resonance

A highly technical and useful nuclear magnetic resonance (NMR) analysis program of interest to students of chemistry and physics.

Written by a professor of chemistry at the University of South Florida, NMR allows the analysis of this technique as used in many advanced chemistry applications. This program is unique in that it displays the calculated spectrum including adjustable peak broadening. Simulated plotting of very complex molecules, such as strong coupled proton spectra, are also allowed. Parameters for up to seven spins (nuclei) can be calculated.

(PC-SIG Disk# 590)

Special Requirements: *Printer.*
Author Registration: *$10.00*

■ PC-Calib

Chemists, researchers, and users of analytical instruments will find PC-CALIB a multifaceted aid to the sometimes tedious task of instrument calibration or verification. PC-CALIB's curves can have up to eight points with three replicates each, and can be measured in any of 12 different standard units. They can be curve-fitted using linear, log-linear, linear-log, or log-log equations (log base 10) and either a first- or second-order polynomial least-squares fit. Experimental values or controls can be entered and checked against a generated curve.

You can view on screen, print it, or format it as ASCII files for import into other software.

Documentation for this menu-driven program is 40-plus well-written pages, and telephone support is available.

(PC-SIG Disk# 1078)

Special Requirements: *512K RAM and CGA or EGA.*
Author Registration: *$55.00*

■ SCI-Calc

SCI-CALC is a scientific calculator with a simple, direct approach. Various standard formulas are shown on the screen relating x and y. You simply enter the numbers you want and the program then calculates the results.

(PC-SIG Disk# 1326)

Special Requirements: *None.*
Author Registration: *$4.00*

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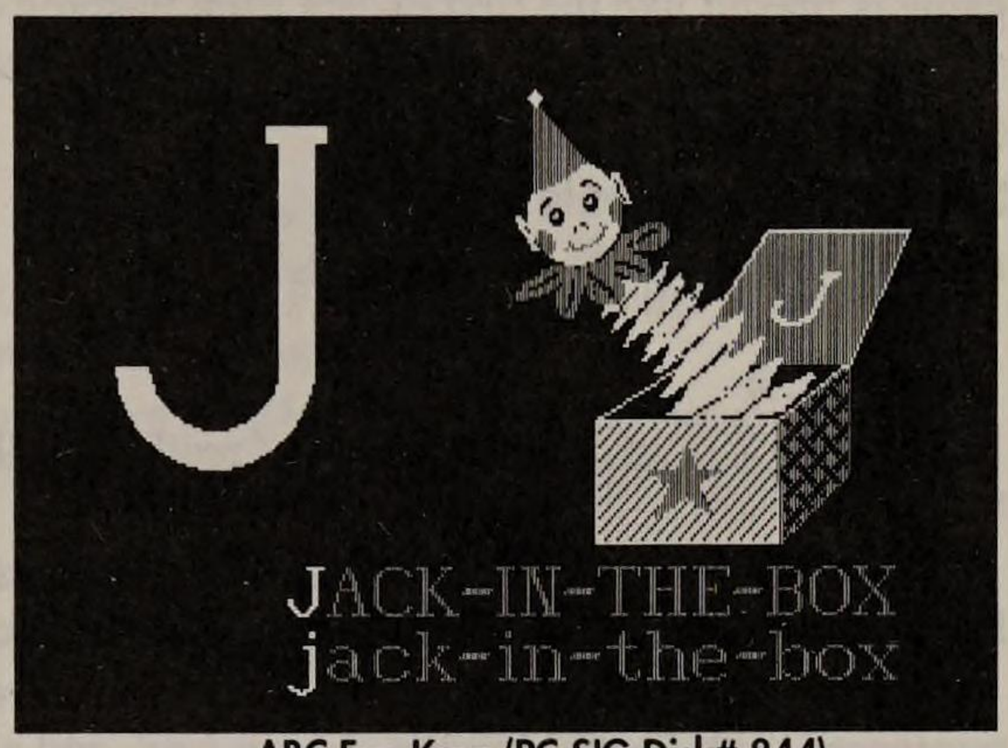
Chess See *Games, Board and Dice.*

Children's Programs (ages 2-10)

■ ABC Fun Keys

In this rapidly advancing technological world we live in, people are being introduced to the computer at younger and younger ages. One program being used for this purpose is ABC FUN KEYS, an educational program which teaches the alphabet, numbers, and keyboard to children two to six years old. The program has colorful pictures for each letter, and nursery rhyme melodies are played when the right key is pressed.



ABC Fun Keys (PC-SIG Disk# 844)

ABC FUN KEYS consists of four learning games structured around the alphabet. An adult control panel and menu allow you to select the letters to be presented, the order of presentation, and many other game options.

In the first game, the letter appears along with a picture of something that begins with that letter, and the child must press the key associated with the letter. Pressing the correct key causes the computer to play a song, otherwise a buzz sounds.

Game two is similar to the first game, except that the picture is gradually revealed at an increasing rate. If the correct key is not quickly pressed, the picture disintegrates and another begins to take its place.

Game three, named Heaven and Mud, is a typing tutor for small children. Letters float in the "air" in the middle of the screen. When the letter key is pressed, the letter explodes into hearts that then float to heaven. "Unloved" letters expire and sink into the mud.

The fourth game is designed for very young children. It displays the letter of any key pressed along with a random song.

ABC FUN KEYS is educational, yet designed to make learning as fun and stimulating as possible.

(PC-SIG Disk# 844)

Special Requirements: *Hercules graphics.*
Author Registration: *$15.00*

User Comments: *"Very good for teaching ABC's to young children." "My three year old son loves this. A fine learning tool. Music adds a lot."*

■ Amy's First Primer

This is a collection of a half-dozen games designed to teach basic skills to children, ages 3-8. They stress positive reinforcement and promote a "learning is fun" attitude.

The collection includes a sing-along alphabet, a letter-matching game, an alphabet tutorial, a numbers-counting game, a maze game, and a pattern-matching game.

Repeated suggestions that the parents use the games with their child add a nice reinforcement toward family-based learning.

(PC-SIG Disk# 646)

Special Requirements: *CGA, EGA, or VGA.*
Author Registration: *$15.00*

Amy's First Primer (PC-SIG Disk# 646)

User Comments: *"My three year old loves this one!" "Excellent for my three and six year olds." "Very fine collecton of easy to use, educational games, comparable to or better than many commercial programs." "My four year old sat in my lap and played, with my help, for 20 minutes without moving!"*

■ Balloon Speller

Your kindergarten or elementary student will delight in these three joyous games that teach spelling. You make 20 word lists of the words you want your child to learn and sit back while your PC turns into a combination teacher and babysitter.

In one game, the word flashes for an instant on the screen. The child pilots a balloon across the screen to pick up the correct letters. If the child forgets the word, you can flash it again by pressing the space bar. The second game is played like the first except each flashing of the word costs a point. In the last game, the letters are scattered about the screen and the game resembles Hangman.

(PC-SIG Disk# 1333)

Special Requirements: *Hercules graphics.*
Author Registration: *$11.95 or $12.95.*

■ Boat Box

BOATBOX is an attactive series of reading drills for children, ages 3-7. Parents need to assist their children in these exercises.

Each of four word lists contain 26 unique words. When the word is read correctly, the helper pushes the "+" key to reward the pupil with brightly colored objects dancing on the screen to merry music.

Missed words are repeated after all 26 words are completed. When all words are read properly, the pupil is reinforced with flashing lights, a siren wail, and a cartoon of dancing teddy bears.

(PC-SIG Disk# 1466)

Special Requirements: *CGA.*
Author Registration: *$5.00*

■ Brandon's Lunchbox

Primary colors and happy music enhance the six programs in BRANDON'S LUNCHBOX that drill children, ages 3-7, in basics such as addition, number sequences, and letter matching.

Your child can learn upper/lower case letter-matching and play games that train memory and teach problem solving. There are also games to teach counting and basic addition.

Correct answers are rewarded with cartoon dancing bears, cheerful sounds, flashing colors, and music. Parents should monitor their child's progress and are needed to help in some of the games.

(PC-SIG Disk# 1465)

Special Requirements: *CGA.*
Author Registration: *$5.00*

■ Fact Pack

FACT PACK is a pair of programs, TABLE and FACTRACE, that are designed to sharpen basic arithmetic skills (addition, subtraction, multiplication and division) for students in grades 1-8.

TABLE displays a multiplication or addition table minus the answers. The computer chooses problems at random and the student must calculate the sum or product for that location. The size of the table can be expanded to larger sums and products.

FACTRACE gives a timed quiz on a combination of addition, multiplication, subtraction, and division problems. It then presents a report of the problems answered correctly, the ones attempted, the percent correct and any errors made.

Both programs run in practice and test modes. In practice mode, the student can work on a problem at a leisurely pace. In test mode, both programs provide exciting challenges for the students as they race with the computer in finding the answers.

FACT PACK supplies both fun and motivation for younger learners, and is an excellent tool for providing basic math skill drills.

(PC-SIG Disk# 1381)

Special Requirements: *CGA.*
Author Registration: *$10.00*

■ Fun With Letters and Words

For your youngster aged two through five, FUN WITH LETTERS AND WORDS provides a computerized First Reader with colorful graphics and personalized stories that can include your child's name and the names of friends, pets, and other family members. Varying reading levels are provided, with the ability to add additional words for building vocabulary and spelling skills.

(PC-SIG Disk# 1278)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ Funnels and Buckets

FUNNELS is an educational game that teaches math in a fun way; getting young ones interested in the subject. It can be a very effective tool. They'll be too busy having fun to notice they are learning!

Arithmetic problems fall from the sky and the idea is to solve them before they hit the bucket (on the ground). A tap on the space bar while the problem falls brings the solution. The "falling" speed can be adjusted for age. When the buckets are full, the game is over. Target ages: 5-11.

(PC-SIG Disk# 229)

Special Requirements: *A version of BASIC.*
Author Registration: *$10.00*

User Comments: *"This program made math facts fun, exciting and challenging for a child who hates math." "I love to watch my son's excitement when he meets the challenges of this math game. It improves his skills with each turn." "Challenges child to learn. My seven year old improved her math." "FUNNELS & BUCKETS is wonderful. What a great way to teach basic math. Helped my daughter learn her math facts (at age eight)." "Good but warn your customers with AT level machines that it runs too fast for smaller children." "My 5 year old son likes it." "A Classic! Helps develop faster responses."*

■ IQ Builder

This set of educational programs is ideal for parents or teachers who want to work with youngsters to develop word and number skills. Each of these BASIC programs is separately loaded from a main program menu. The synonym and antonym programs are particularly challenging.

IQ BUILDER uses no graphics, but it does get the job done. The target group is children between the ages of 5-10.

(PC-SIG Disk# 18)

Special Requirements: *A version of BASIC.*
Author Registration: *None.*

User Comments: *"IQ BUILD is a very educational and challenging program. Improves vocabulary and reasoning skills."*

■ Jem

JEM LOGO was written to teach children the basics of computer programming. It is a very simple programming language that teaches children the logic associated with a computer and how to combine commands to carry out complex tasks.

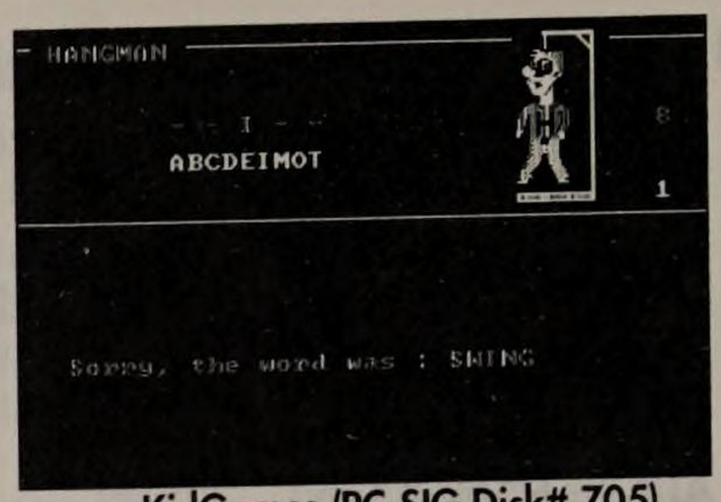
JEM has three basic modes: help, explain, and run. The first mode you see is RUN, when the logos are displayed. If you type in HELP, you get four pages of text, giving a brief description of the logo or word you indicated when you requested help.

(PC-SIG Disk# 922)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ KidGames

KIDGAMES is a blast! This collection of games is specifically geared toward the ages of 2-10 years, and has a straightforward approach which makes learning fun. It also has excellent graphics, and is a great program for introducing your kids to your home computer.



KidGames (PC-SIG Disk# 705)

For education, HANGMAN in one of the best on this disk. It teaches both basic spelling and lets you expand the dictionary as vocabulary increases. For pure fun, MOSAIC teaches pattern matching and allows for pattern building. Also on this disk are:

- ALPHABET, which teaches the alphabet and alphabetic sequence
- ANIMALS, which teaches simple preschool math
- CLOCKGAME, which teaches how to read an analog clock

(PC-SIG Disk# 705)

Special Requirements: *CGA.*

Author Registration: *$10.00*

User Comments: *"As an uncle, these are delightful. They build children's confidence and keep them happily occupied." "Better than commercial programs costing much more." "Variety of games, all good. My four year old likes ALPHABET." "Wish we had these when I was a kid." "My grandchildren play it for hours." "The kids love it." "Great HANGMAN." "Excellent for preschoolers!" "Super graphics."*

■ Learn to Guess

LEARN TO GUESS is a set of four games that can help your child, in grades 1-12, learn basic arithmetic and develop problem-solving strategies. Each of the games is complete in itself. When used in sequence, skills already learned are honed and reinforced.

In GUESSME, for one to four players, students in grades 1-8 develop their problem-solving strategies by trying to guess the computer's secret number. There are eight levels of difficulty which sustain a challenge for most players. Other concepts used in the remaining programs are introduced here.

ROMAN GUESSME is identical to GUESSME, except all the numbers used are displayed as, and must be entered as, Roman numerals. Grades 5-12.

At first glance NEAREST, a game for two to four players, seems to be a simple number-guessing game, but it requires sharper thinking than is first apparent. Appropriate for grades 2-8.

SUPERGUESS, for two to four players, challenges students in grades 3-12 to call upon their knowledge of prime numbers, composite numbers, factors, multiples, sums, differences, and products as they compete against one another in a race across the computer's screen.

(PC-SIG Disk# 1412)

Special Requirements: *CGA.*

Author Registration: *$15.00*

■ Math Tutor

This elementary grade level tutorial — targeted at grades one through six — supplies age-graded exercises and tests for a variable student body. Math Tutor also supplies the opportunity to re-design for special problems.

If you're a parent, or are otherwise involved in a tutorial situation, these lessons and non-timed drills can be both a lighthearted and challenging way to teach math principles. It seems more appropriate for home than schoolroom use. Tests are sent to the screen.

(PC-SIG Disk# 95)

Special Requirements: *A version of BASIC.*

Author Registration: *None.*

User Comments: *"Excellent. I especially like the customizing part where a problem area can be drilled on exclusively." "Both children enjoy this disk. A good educational program. Good for a wide variety of grades."*

■ Number Magic

NUMBER MAGIC helps to teach preschool children number recognition and counting skills. Favorite childhood songs reward success, and the game encourages older siblings to share in the learning experience with the preschool child. Counting, matching, and maze games help your children learn. A parent gets things started and makes the learning experience a more rewarding one for all.

(PC-SIG Disk# 1214)

Special Requirements: *CGA.*

Author Registration: *None.*

■ Play 'n' Learn

PLAY 'N' LEARN is a delightful collection of six simple educational games for young children, ages 1-1/2 to 4. They help children acquire skills in letter recognition, simple counting, and computer usage.

Amanda's Letter Lotto teaches both upper- and lower-case alphabets; Zack-a-Doodle is a paint/draw game; Color Screen and Color Match help children recognize colors; Word Whirl and Next Number are perfect for learning words and simple counting from 1 to 9. PLAY 'N' LEARN also includes a game that helps a child learn shapes.

(PC-SIG Disk# 916)

Special Requirements: *CGA.*

Author Registration: *$10.00 to $12.00.*

User Comments: *"Gives my son lots of practice on the keyboard." "My six year old gives it an "A." It is a good program for kids learning the alphabet or learning to spell."*

■ Wizquiz

WIZQUIZ is an educational program that offers randomly generated problems across a wide area of the average elementary school mathematics curriculum, including: addition, subtraction, multiplication, division, lowest common denominator, greatest common factor, simple and advanced fractions, decimals and percentages, and reciprocals.

Each type of problem has 10 levels, and each level has a target score determined by the number of errors and the time it takes to solve 10 problems. Since WIZQUIZ asks for and remembers a player's age, it restricts access to easier problems by age.

After each set of 10 problems, the program calculates the new average, checks the score against the best ever and the player's own previous best performance, and announces the score. WIZQUIZ keeps a separate record for each player's best score and averages.

WIZQUIZ can be used both at home for personal studying and at school in the classroom.

(PC-SIG Disk# 922)

Special Requirements: *CGA.*

Author Registration: *$9.00*

User Comments: *"A good all-purpose program. My daughter (age five) enjoys it very much. It enhances her math skills. Everyone in my family tried it and they all love it." "The math is excellent because it is tailored to age group. Nice section for individual scores. Top notch."*

■ Word Processing for Kids

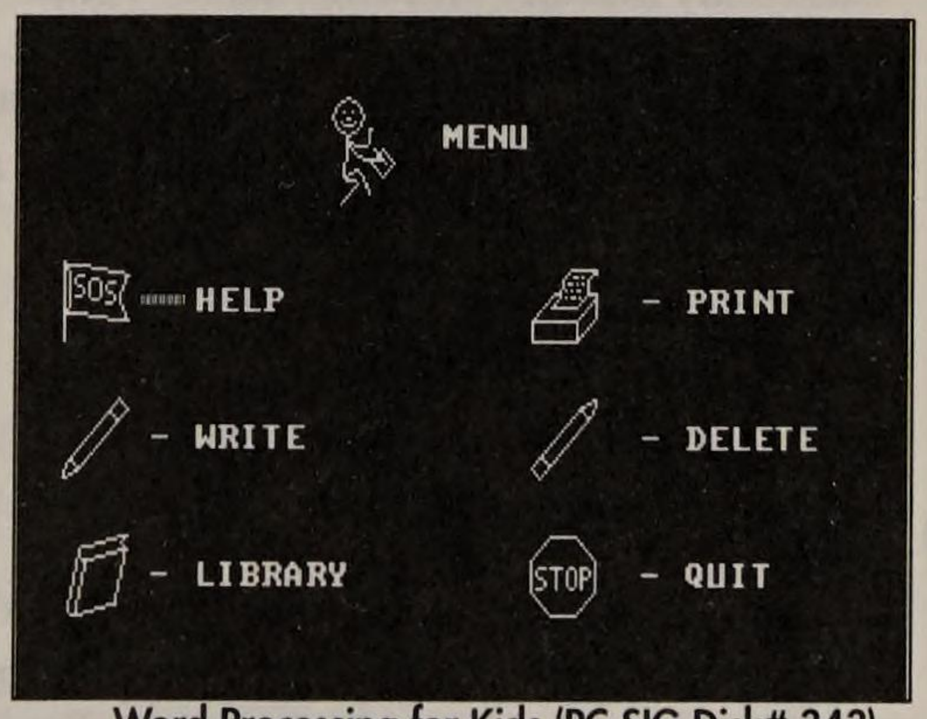
WORD PROCESSING FOR KIDS (WPK) is a simple word processor especially designed for children, ages 5-10.

WPK was developed to help children build communication skills, develop computer expertise and make writing possible and fun! In a distinctively bright and friendly environment, it features graphic menus, word wrap, and extra large characters making it less intimidating and easier for the little ones to read. The on-line help function takes only a few moments to master. Thorough and well-written documentation completes the package for the budding author.

(PC-SIG Disk# 343)

Special Requirements: *CGA.*

Author Registration: *$10.00*



Word Processing for Kids (PC-SIG Disk# 343)

User Comments: *"For the "older child." "Easy to use. The larger type is easy to read. Great introduction to the computer for very young children."*

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Chinese, Educational See *Language Study, Foreign.*

Chiro Patient Tracking System Doctors and Dentists — Keep track of patients and billings, and process claims forms. See *Business Specific Systems.*
(PC-SIG Disk# 1044)

CHK4BOMB Check any program to see if it writes information to disk or if it formats. Also looks and displays any text found in program object code. Great virus detector. See "Program Grab Bag" listed under *Practical Jokes.*

Christmas Concert Volume 1 Two 20-minute concerts of everyone's Christmas favorites designed on PIANOMAN. Hear real music on your PC to add to your enjoyment of the holiday. See Music.
(PC-SIG Disk# 1211)

Christmas Concert Volume 2 More Christmas favorites designed with PIANOMAN (PC-SIG Disk #279). Hear real music on your PC to add to your enjoyment of the holiday. See *Music.*
(PC-SIG Disk# 1212)

Church Administration

■ Church Membership System

The CHURCH MEMBERSHIP SYSTEM is a wonderful database to keep track of members of your church, but it works equally well for your group, club, or business. You can keep track of your members' birthdays and anniversaries, or any other special or important dates. Some of the features include modify/delete, browsing, and making multiple reports. It is menu-driven and user-friendly.

(PC-SIG Disk# 742)

Special Requirements: *Two floppy drives and a printer.*
Author Registration: *$45.00*
User Comments: *"Good database program. Very useful for our small church."*

■ Heritage Church System

HERITAGE CHURCH SYSTEM is designed to automate the most mundane clerical tasks of the local church. The program records and accesses contributions and membership information in a quick and concise manner. Entries can be made for families in general, and for each individual in a family.

Each entry includes the name, address, phone, and church status. An envelope number can be entered if pre-numbered envelopes are used for recording family giving. Contributions are entered separately, and the program then handles the data in a weekly accounting system. Address and contribution reports can be printed out for each family.

Mail merge capabilities work with PC-Write and Microsoft Word, allowing you to do mass mailings to the congregations.

(PC-SIG Disk# 881)

Special Requirements: *Two floppy drives. Hard drive recommended.*
Author Registration: *$89.00*

■ Minister Database

MINISTER helps you schedule readers, altar boys, communion ministers, head ushers, and greeters for the Catholic Mass.

The scheduling process takes into account the preferences of the people scheduled, vacations, and assignments of family members. The schedule is suitable for inclusion in the church bulletin. It can handle up to 600 people and any reasonable number of masses. Schedule Sunday masses, weekday masses, and special masses, such as Christmas and Easter, that appear irregularly.

Schedule an additional minister-type schedule of your own definition. Display and print labels, phone lists for substitutes, or the entire database.

(PC-SIG Disk# 954)

Special Requirements: *None.*
Author Registration: *$30.00*

■ Minister's Sermon Indexer

MINISTER'S SERMON INDEXER is a simple database designed with the pastor in mind. It keeps track of sermons delivered and the date and location thereof.

The program lets you store the title, subject, and scripture reference. Additionally, a field is provided for a five-digit reference number, so you can refer to the text file where the actual sermon is stored.

The MINISTER'S SERMON INDEXER does not do anything that cannot be done with most respectable database programs available; however, it does have an excellent user interface. It also features pull-down menus with cursor control (arrow) keys. The documentation is very good, although the program is so easy to use it is hardly needed.

(PC-SIG Disk# 790)

Special Requirements: *None.*
Author Registration: *$35.00*

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Church Adminstration See *Bible Study.*

Church Membership System Keeps track of members' birthdays and anniversaries, contributions, committee memberships, visitations, and more. See *Church Administration.*
(PC-SIG Disk# 742)

Cipher Keep those data files secure. Encrypt your files into unintelligible garbage and add password protection up to 50 characters long. See "Utility Potluck" listed under *File Management Utilities.*

Circle Software A DOS shell loaded with handy and useful utilities to ease file handling, searching, menuing, survey creation, and printing. See *File Management Utilities.*
(PC-SIG Disk# 1331)

Citizen A handy pair of utility programs for the Citizen printer for pitch control and envelope addressing. See *Printer Managers.*
(PC-SIG Disk# 1403)

Citizen Printers See *Printer Managers or Printer Utilities.*

Civil Engineering See *Engineering.*

CK System A well-rounded checkbook maintenance program. Records and tracks income and expenses, and logs tax-deductible expenses. Can handle up to nine checking accounts. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 462)

Class Record CLASS RECORD is a spreadsheet-style program for maintaining grades and averages over the course of the school year. See *Teaching, Grading Systems and Record Keeping.*
(PC-SIG Disk# 1071)

Classbook Deluxe Teachers — here's a classroom manager to maintain attendance records, homework and test scores, grade calculations, class lists, and seating charts. See *Teaching, Grading Systems and Record Keeping.*
(PC-SIG Disk# 951)

Classic Solutions This combination database manager and programming language lets you create special applications to solve your computing needs. See *Databases.*
(PC-SIG Disk#'s 1138, 1139)

Classroom Attendance See *Teaching, Grading Systems and Record Keeping.*

Clock CLOCK displays a full analog clock face on the screen of your computer, including second hand, in real time taken from DOS. See *Utilities, System or Hardware.*
(PC-SIG Disk# 875)

Clock A clock coordinates all activity within a computer. That's hard to do because an ordinary PC has a "clock speed" of about 4.77 megahertz or 4.77 million cycles per second. The clock, usually based on a quartz crystal, gives off regular pulses. Each time the clock pulses, switching activity can occur. Clock can also refer to the time of day set on your DOS Clock/Calendar.

Clock/Calendar A part of the DOS software which keeps the system date and time in a personal computer.

Clone A clone is anything which is an exact imitation of something else. For instance, IBM manufactured the IBM-PC personal computer and now many companies manufacture clones of that computer. Generally any software that will run on an IBM-PC will run on a clone. Even software can be cloned. Many clones of commercial software programs exist in shareware.

CloneRom Watch out, Big Blue! Here's how to make your PC/XT/AT totally IBM compatible, right down to the programming of the chips in the motherboard, at a fraction of what IBM-programmed ICs cost! See *Utilities, System or Hardware*.
(PC-SIG Disk# 1408)

Code-Blue Quick menu-driven listing of all the phone area codes for the U.S. and Canada. See *Reference Materials (books/articles/information/data)*.
(PC-SIG Disk# 1083)

Code/Coding Code is what a programmer writes using a programming language. Code is a list of instructions that tell a computer what to do. Writing this code is called coding. For programs see *Programming, (Specific Language)*.

CoGo A coordinate geometry surveying program for plat designers. See *Engineering*.
(PC-SIG Disk# 1013)

Colic, Treatment See *Health Management*.

Collage Create colorful slide shows and run them on your computer. See Presentation Graphics (Slides).
(PC-SIG Disk# 975)

College Football Pool Follow college football? Keep track of the schedule, print up betting sheets and log the winners with this program. Handle the local pool with a minimum of labor. See Gambling.
(PC-SIG Disk# 892)

College Selection See *Reference Materials (books/articles/information/data)*.

Color Graphics Adapter Emulation See *Utilities, System or Hardware*.

Colore COLORE lets you choose the colors your monitor will display when your system first boots up. You can select from 16 different colors for the foreground, background, and border of your monitor. See "Utilities Galore" listed under *Printer Utilities*.

Colorset COLORSET displays a chart of available colors from which you can choose your screen settings on CGA, EGA, and VGA systems. See *Utilities, System or Hardware*.
(PC-SIG Disk# 1370)

COLORSET Deviate from the colors DOS has to offer. Change the screen colors on your CGA, EGA, or VGA monitor. See "Garc's Utilities" listed under *Printer Managers*.

COM Port File Transfers See *Communication Programs*.

COM, EXE file extensions These are filename extensions which signify executable programs. A program is executed by typing its filename (without the extension) at a DOS prompt and pressing ENTER.

COM1, COM2 These are the names for the first and second communication ports on a computer. RS-232 is the term for the standard communication port connection. While other devices such as a mouse or printer may be attached, modems used for long distance communication are most often attached to communication ports. For programs see *Communication Programs*.

Command Any DOS function typed at the keyboard. For example, COPY is a DOS command. It also refers to the word typed to invoke an application program.

Commodities See *Investment Management.*

Communication Programs

■ Boyan Communications

BOYAN is a powerful communications package which provides all the flexibility, speed, ease-of-use and features a person may desire for taking full advantage of the new world of electronic mail, computer bulletin boards, and telecommunication.

Features:

- Supports interrupt-driven communications with practically all modems at 9600, 4800, 2400, 1200, and 300 baud
- When stuck, you can get context-sensitive help screens any time
- "Back up" or cancel the current action any time
- Saves you time and money by allowing you to upload messages you have prepared off-line
- An extensive script language with well over 100 commands
- A status line to keep you informed of the current activity
- "Usage Log" that records the length of all modem connections and the efficiency of all file transfers
- DOS shell is available at all times
- Full built-in file manager allows you to scan directories, copy and view files at the touch of a key
- Works equally well with floppy or hard disk based systems
- Dialing Directory for automated calling
- 20-number redialing queue
- "Scroll-back buffer" fills all available memory
- Line Editor and BOYAN's exclusive backspace editor
- Gossip mode for on-line conversation between two modem users
- Built-in ANSI emulation

BOYAN is generally self-explanatory. Experienced users and new users alike find they can use the program without ever reading the on-disk manual. It's there, just in case!

(PC-SIG Disk#'s 1206, 1343)

Special Requirements: *Modem and a hard drive.*
Author Registration: *$35.00*

■ Brain, The

Now that you have your modem and a telecommunications program, you just love to call up the local and national bulletin board systems to download files and pick up your mail. But sometimes the lines are busy when you call, and you don't have time to call later. Now you can have THE BRAIN make those calls for you.

THE BRAIN is a telecommunications program that accesses your favorite BBS (bulletin board system) or on-line service (CompuServe, etc.) when you're not there. This is done by building a "command file" with special commands the program interprets and acts upon in your absence. These commands let you upload and download files, leave messages, and generally perform any routine tasks you don't want to take the time to do yourself. THE BRAIN also lets you set up the program to call a BBS when it is easier to get on-line, such as late at night or during the day while you're at work.

Suited for the intermediate to expert user, THE BRAIN's documentation assumes you are familiar with DOS, you have a text editor and know how to use it, and you know how to program your modem. The manual has a glossary of commands (with detailed descriptions and brief examples of each) and a sample command file.

(PC-SIG Disk# 752)

Special Requirements: *Modem.*
Author Registration: *$15.00*

■ Dialer

An electronic phone dialer that keeps a list of names with their phone numbers. It can look up an unlimited number of names and instantly dial the correct phone number associated with that name. It assumes you are already using a modem and communications package.

DIALER lets you interact and talk on a BBS, but does not support the uploading or downloading of files.

(PC-SIG Disk# 717)

Special Requirements: *Modem.*
Author Registration: *$49.95*

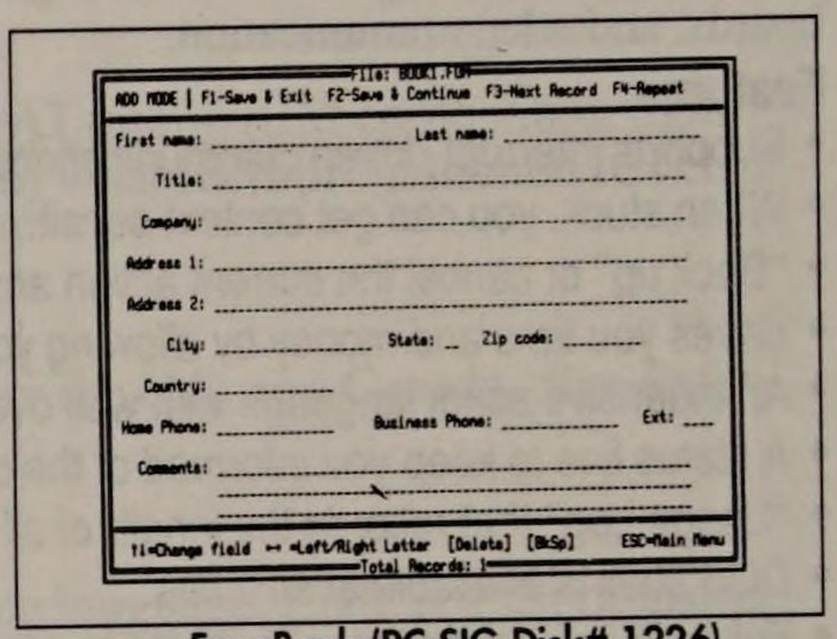
■ FoneBook

FONEBOOK lets you use your computer as your personal telephone directory and even dials for you.

If you're like most people, you probably have names, addresses, and phone numbers scribbled on little bits and pieces of paper all over the place. FONEBOOK is a tool to help you organize all those bits and pieces into a single database of names, addresses, and phone numbers.

With FONEBOOK you can:

- Create and add names, addresses, and phone numbers
- Send database to ASCII file for easy editing
- Browse through the database
- Search the database, on any field
- Quickly find and dial (with modem) any phone number
- Print the entire database, or only selected records or fields



FoneBook (PC-SIG Disk# 1226)

FONEBOOK comes with a configuration program that will set up the program for your monitor type, your modem, and your favorite screen colors.

(PC-SIG Disk# 1226)

Special Requirements: *Modem.*
Author Registration: *$10.00*

■ GT PowerComm

If you are looking for a communications program and want something powerful, yet uncomplicated, you want GT POWERCOMM.

GT POWERCOMM gives you complete telecommunication capabilities for your system and has seven different file transfer protocols to use in uploading and downloading files from another system.

You can use GT POWERCOMM to call other computers, as well as capture and save on disk any text displayed on the screen. The program also has multiple telephone directories, each with 999 phone numbers. These directories include the date and time you last called each number, total number of times you called each number, total duration of your calls to each number, a record of upload and download amounts to each number, file transfer protocol, and log-on script.

What's unique about GT POWERCOMM is you can use any DOS commands without exiting the program. If you put the program into the host mode, you can call your computer system from another modem. And by using its DOS shell features, you can work and interact with your own computer system from a remote location. Of course, you'll need a special password and level usage to do this — GT POWERCOMM doesn't just give unauthorized people free access to your system. The host mode is designed to give you a lot of security from other callers. Most of the time, though, it will let other, legitimate callers enter messages, send and receive programs, and perform other authorized interactions with your system over the phone line.

No longer will you have to re-register on a BBS just because you didn't call it during a certain time period. GT POWERCOMM can not only automatically redial the number for you, but also store up to 200 different numbers on a circular dialing queue.

For anyone who does not plan to use the host mode, a shortened version of GT POWERCOMM is offered to save disk space.

(PC-SIG Disk#'s 782, 783)

Special Requirements: *Modem, and two floppy drives.*
Author Registration: *$40.00*

■ Ideal Terminal (IT)

IDEAL TERMINAL (IT) is a VT-100 and VT-52 terminal emulator and a full-service communications program.

Features:

- Fast — suitable for screen editing at 9600 baud
- On-line help, including current macro definitions
- KERMIT, Xmodem, and ASCII file-transfer capabilities
- Wildcard file specs for KERMIT transfers
- Auto-dialing/auto-retry for Hayes compatible modems
- Save and review screen images
- Log to printer or disk
- History of the most recent 16 screens of data
- Screen blanks, after 30 minutes of no use
- Macro key definition and script files

(PC-SIG Disk# 679)

Special Requirements: *Modem.*
Author Registration: *$20.00*

■ KERMIT

KERMIT implements a file transfer protocol for the MS/PC-DOS operating system family. The package has a complete program for IBM-specific machines, as well as generic MS-DOS selections. The Assembly language source code comes with the package.

KERMIT performs almost complete emulation of the DEC VT-102 terminal at speeds up to 19,200 baud. Full-speed 9600 baud operation is possible on 4.77Mhz systems. KERMIT is a popular file transfer protocol on many mini and mainframe computers, used daily in schools, colleges, and many businesses.

Features:

- Local operation
- Remote operation
- Binary file transfer
- Filename collision avoidance
- Wildcard sending
- Eight-bit and repeat-count prefixing
- Time out
- Alternate block checks
- Terminal emulation
- Session logging
- Local file management
- Advanced commands for servers
- Command macros

(PC-SIG Disk#'s 41, 42)

Special Requirements: *Modem.*
Author Registration: *None.*

■ Message Master

Provide a message center in your computer. Several users of the same computer can leave messages and notes to each other.

Type, read, and delete messages using the SEND and READ routines. In sending a message, names are restricted to eight characters, subject headings to 80 characters, and the entire message to 1000 characters. MAIL shows the names of the people who have messages waiting for them, and can be set up to be executed when the computer is turned on. Although MESSAGE MASTER has limited text editing capabilities and no password protection between each person, it is very easy to use and keeps a record of all messages sent until they are deleted.

(PC-SIG Disk# 988)

Special Requirements: *Modem.*
Author Registration: *$10.00*

■ Omega-Link

OMEGA-LINK is a communications program for the modem, which can be configured to suit your needs. Configure the communication parameters, file names, modem and printer, buffer sizes, windows, and colors. Commands are easy-to-use and can be viewed on a pop-up menu. There are 50 user-definable macros to help speed frequently used sequences of commands. An on-screen clock helps you keep track of how much time you spend on the phone lines.

OMEGA-LINK has extensive file functions. View a file, rename a file, change attributes, or delete a file. Any directory listing will show all files on the disk, including hidden files, read-only files, and subdirectories. Create or delete a subdirectory and show the amount of disk space available. Change the path and default drive and shell to DOS. ANSI graphics can be toggled on or off, and sessions can be captured onto disk.

OMEGA-LINK has several built-in file transfer protocols. These protocols include: ASCII, Xmodem, and Ymodem. If these aren't enough, there is an external protocol handler that allows you to add additional protocols such as Zmodem, WXmodem, and KERMIT.

(PC-SIG Disk# 843)

Special Requirements: *Modem.*
Author Registration: *$29.95*

■ One-To-One

ONE-TO-ONE (121) is a unique, easy-to-use telecommunications program designed for interactive communications between two people (as opposed to calling a bulletin board service). Now, type messages back and forth by modem (chat) during file transfers. Separate windows of text are provided for both incoming and outgoing messages, and each window can be scrolled by either user.

Other features include quick pull-down menus and a thorough series of help screens that are easily accessible.

(PC-SIG Disk# 1031)

Special Requirements: *Modem.*
Author Registration: *$20.00*

■ PC-DIAL

A nifty communications program from the makers of PC-FILE+.

Features:

- Send and receive electronic mail
- Use any DOS command (like DIR or COPY) without leaving PC-Dial
- Use a built-in mini-editor to create or edit log-on files
- Set up Smart Keys to save keystrokes
- Communicate at speeds from 300 and 1200 all the way up to 9600 baud
- Exchange (send or receive) text or non-text (.EXE or .COM) files with other computers supporting Xmodem (CRC or Checksum) protocol
- Use modems which support auto-dial
- Capture incoming data to a disk file
- Save a "picture" of your screen to disk at any time
- On-line help screens
- On-line timer
- Automatic redial

(PC-SIG Disk# 129)

Special Requirements: *Modem.*
Author Registration: *$59.95*
➤ ***ASP Member***

■ Private Line, The

Information is the currency in today's world. Protect your data with THE PRIVATE LINE, an encryption/decryption program.

When encrypting or decrypting a file, THE PRIVATE LINE prompts you before overwriting an existing file. Single and double encryption is provided, the latter involving the encryption of an encrypted file, preferably with

a different key.

An encrypted file usually contains binary data, but some bulletin boards, such as CompuServe and EasyLink, require ASCII text files. This program is able to convert a file from binary format to printable ASCII and then print it. Also included is an option which demonstrates compliance with the 171 tests required to meet the Data Encryption Standard of the NBS.

(PC-SIG Disk# 893)

Special Requirements: *Modem.*
Author Registration: *$30.00*

■ Procomm

ProComm is a general-purpose program designed to provide easy and convenient access to a broad variety of telecommunications tasks. Included in its abilities are the features you would expect to find in highly sophisticated telecommunications software:

- The ability to emulate these popular terminals: VT100, VT52, IBM3101, TV920, TV950, ADM5, HEATH19, ANSI, ADDSVP, and WYSE100
- A dialing directory containing 100 entries
- Automatic redial facilities for connecting with hard to reach numbers
- A host mode that allows users to call up your system for file transfer or conversation
- Several popular file transfer protocols including Xmodem, Kermit, Telink, Modem7, Ymodem, Ymodem Batch, ASCII, CompuServe B, and WXmodem
- Command files to control automatic logon and unattended operation
- A DOS gateway which allows you to execute DOS commands or other programs while you are still on line

There are a host of additional features, including keyboard macros, disk and printer logging and many others that you will find on this top rated shareware program.

(PC-SIG Disk# 499)

Special Requirements: *Modem.*
Author Registration: *$75.00*
➤ASP Member

■ ProFonEdit Plus — Procomm Plus Directory Editor

Procomm Plus is a good telecommunications program, but you can only edit single entries at a time. With PROFONEDIT PLUS, you can mark entire blocks of the directory for moving, deleting, inserting, exchanging, packing, and sorting telephone entries. Edit your Procomm Plus dialing directory like a wordprocessor.

PROFONEDIT PLUS gives more editing capabilities on each line of the directory and can "undo" multiple-editing changes. A backup file can be created at any time, and on-line help explains each command of the program menu. This program is a necessity for anyone using Procomm Plus who wants to edit and reorganize their telephone directory.

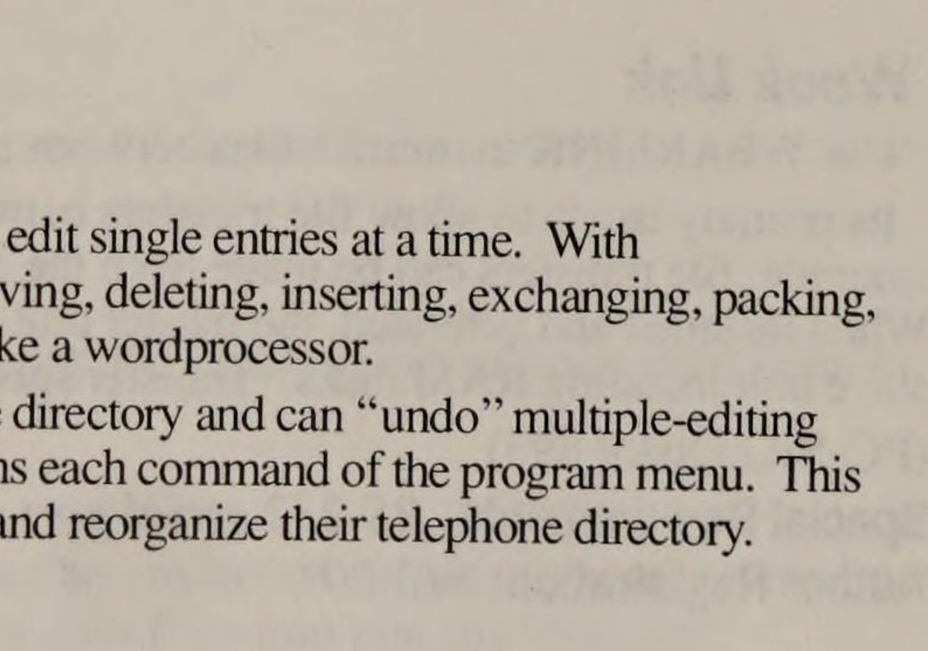
(PC-SIG Disk# 956)

Special Requirements: *A version of Procomm.*
Author Registration: *$20.00*

■ QMODEM SST

A fast and powerful telecommunications program for anyone using a modem. Expanded memory usage, windowing, Xmodem protocol, and auto-redial are only some of the strengths of this package.

The "quick-learn" mode option is perfect for novices, and further training is available with the context-sensitive Help function. Read and write ASCII files with the integrated text editor. X,Y, and Imodem protocols are fully supported as are multi-tasking environments such as Topview, Desqview, Taskview, and Windows. The dialing directory can be sorted, printed, and searched. Terminal emulations for VT100, ANSI, TTY, and Televideo 925 ensure further flexibility. LOG allows you to maintain usage records — who called, time called, time online, and



QMODEM SST (PC-SIG Disk# 310)

a date/time stamp for each log entry.
(PC-SIG Disk#'s 310, 1022, 1023, 1483, 1484)
Special Requirements: *Modem.*
Author Registration: *$30.00*
User Comments: *"Super communication program." "Qmodem offers excellent documentation."*

■ QuickTran

QUICKTRAN is a telecommunications file-transfer program which compresses files as they are sent across phone lines for saving in time and cost.

In standard file transfer protocols (like Xmodem), the computer spends a great deal of time waiting to send or receive data. QUICKTRAN puts this time to use, compressing and decompressing data as it comes in or goes out. A comparison of QUICKTRAN to Xmodem demonstrated that QUICKTRAN is, on the average, almost twice as fast.

The program is fully documented, easy to install and use. A copy is required by both the sending and receiving computer.

(PC-SIG Disk# 1371)
Special Requirements: *Modem.*
Author Registration: *$19.95*

■ Supercom

SUPERCOM is a standard asynchronous communications package, letting you communicate with other computers and transfer files via the phone lines. This is a simple, direct package for someone who doesn't need to bother with a lot of fancy features.

(PC-SIG Disk# 717)
Special Requirements: *Modem.*
Author Registration: *$49.95*

■ Weak Link

Use WEAKLINK to transfer files between your PCs via RS-232 serial ports.

Its primary use is to allow file transfers between two machines that have different or non-removable media. For example, file transfers can be made from the 3-1/2" floppy drive of one machine to the 5-1/2" drive of another. When installed and activated, the master unit can access and transfer files to or from any or all of the drives of the slave unit incuding RAM disks. Transfer speed of data is selectable from 1200 to 115K baud.

(PC-SIG Disk# 893)
Special Requirements: *RS-232 serial port and cable.*
Author Registration: *$15.00*

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Compass Desktop Manager Integrated desktop manager includes a database, spreadsheet, accounting package, mailing list, and appointment scheduler. See *Desktop Organizers.*
(PC-SIG Disk# 764)

Compiler A compiler is a program which converts source code written in a computer language such as C or Pascal into the machine language that is directly executed by the computer. Unlike an interpreter, which only runs one line of a program at a time, the compiler first reads all of the code then stores it in a new "compiled" form. The complete compiled program can then be run without needing the compiler or an interpreter. Compiled programs operate at speeds as much as 10 times as fast as programs that use an interperter. For programs see *Programming, (Specific Language).*

Composer A simple music editor to create music with a three-octave range. See *Music.*
(PC-SIG Disk# 722)

Composer A simple music editor to create music with a three-octave range. Use it on your PC or PCjr. Several famous compositions are provided to serenade you. See *Music*.
(PC-SIG Disk# 794)

Composing Music See *Music*.

Compound Interest See *Loan Calculators*.

Compress Compress your text files under a variety of operating systems including MS-DOS, VMS, and versions of UNIX. See *Archive/Compression Utilities*.
(PC-SIG Disk# 1037)

Compressed file A data file which has been condensed by an archive program to consume less disk space. For programs see *Archive/Compression Utilities*.

Compression, Files See *Archive/Compression Utilities*.

CompuShow Scroll through your directory and choose the .RLE or .GIF file you wish to be displayed with COMPUSHOW. See *Presentation Graphics (Slides)*.
(PC-SIG Disk# 1461)

Computer Baker Organize your recipes with this system. Search by name, ingredient, or other text string and recompute recipes for different serving sizes. See *Food and Drink Preparation*.
(PC-SIG Disk# 1171)

Computer Contract Bridge For the beginning bridge player — learn to beat the computer. See *Games, Cards*.
(PC-SIG Disk# 713)

Computer Darkroom Photographers — Calculate exposure times and settings without the expense of trial-and-error. CD considers factors such as paper speed, contrast, magnification, and f/stops. See *Photography*.
(PC-SIG Disk# 1313)

Computer Draw Poker Learn to play a skillful game of five card draw as the computer tutors you in the nuances of the game. See *Games, Cards*.
(PC-SIG Disk# 714)

Computer Solitaire Three addictive versions of popular and challenging solitaire card games. See *Games, Cards*.
(PC-SIG Disk# 1177)

Concatenate To join two or more strings together. A string can be any set of consecutive, adjacent characters, but concatenation usually refers to the joining of two text or data files into one big long one.

CONFIG.SYS The CONFIG.SYS file is read by the computer when the computer is started. It tells the computer about the type of keyboard, the memory buffers, and other elements of how the system is to be configured. See your DOS manual for more complete information.

Console A DOS term for your screen and keyboard.

Constellations See *Astronomy and Space Exploration*.

Construction Estimating See *Quotes, Bids, and Estimating*.

Construction Estimator For the home handyman and amateur builder who likes to tackle major projects, CONSTRUCTION ESTIMATOR provides a menu-driven aid for estimating building project costs. See *Quotes, Bids, and Estimating*.
(PC-SIG Disk# 1159)

Construction, Building Costs See *Reference Materials (books/articles/information/data)*.

Contest Logs, Ham Radio See *Ham Radio.*

Contest Record Keeping, Sports See *Sports Management.*

Context-Sensitive Help While operating a computer program, help documentation usually can be displayed on the screen by pressing a designated help key. Sometimes the help is general and may not refer to the particular task or part of the program you are working on. Help is considered context-sensitive when the help given is relevant and responsive to the task you are performing, and to the particular part of the program you are working on. Many shareware programs boast context- sensitive help.

Contract Bridge See *Games, Cards.*

Conversion Programs

■ Conversion Program

Here is a menu-driven Metric/English — English/Metric weight and measure conversion program, can handle the following conversions: linear, square and cubic measures; dry and liquid measure of capacity; and Avoirdupois and Apothecaries' (Troy) weights and fluid measures.

(PC-SIG Disk# 989)

Special Requirements: *A version of BASIC.*
Author Registration: *None.*

■ CONVERT

CONVERT is a metric-English/English-metric conversion calculator.

Thirty-six conversions are available relating to length, weight, area, volume, and pressure. You select the type of conversion from the menu in the program or from the command-line.

(PC-SIG Disk# 960)

Special Requirements: *None.*
Author Registration: *None.*
➤*ASP Member*

■ Convert

CONVERT is a conversion calculator that accepts arguments from the command line and shows a list of equivalent quantities of different units (English vs. Metric). This program is very useful as it converts a variety of units concerning distance, area, volume, time, rate, heat, energy, and force.

(PC-SIG Disk# 1183)

Special Requirements: *None.*
Author Registration: *$5.00*

■ Units

UNITS is a menu-driven technical units conversion program that includes a review of six common systems of units and gives a number of physical constants and relationships. What this means, in English, is the program converts units of measurement from one form to another. For example, do you need to know how many millimeters are in 14 inches? UNITS can answer that question (355.6mm), plus many more.

(PC-SIG Disk# 1014)

Special Requirements: *None.*
Author Registration: *$15.00*

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Conversion Program Convert metric/English, English/metric, Avoirdupois and Troy measures.
See *Conversion Programs.*
(PC-SIG Disk# 989)

CONVERT CONVERT is a metric-English/English-metric conversion calculator. Thirty-six conversions are available relating to length, weight, area, volume, and pressure. See *Conversion Programs*.
(PC-SIG Disk# 960)

Convert Convert units from metric/English and English/metric for distance, area, volume, time, rate, heat, and more. See *Conversion Programs*.
(PC-SIG Disk# 1183)

Copy Fitting See *Word Processor and Text Utilities*.

Copy Protection See *File Management Utilities*.

Copy Utilities

■ Dcopy

DCOPY is an enhancement of the MS-DOS COPY command. You can still copy files, but you control the copying process based on the file's creation/revision date. The program also pauses when the new disk becomes full, lets you put in another, and even formats it! If you want, you can ask DCOPY to prompt you before each file is copied. Wildcard copies are supported.

(PC-SIG Disk# 936)

Special Requirements: *None.*
Author Registration: *$35.00 for collection of date-sensitive utilities.*

■ Disk Duplicator

DISKDUP makes it easy to make multiple floppy copies of all your favorite shareware programs to share with your friends. Written in Forth, the program is faster than the standard DOS DISKCOPY, with more user options. It automatically formats disks, verifies copies, and detects any write errors. It will also try three times to read a disk section before giving up in disgust.

Because DISKDUP loads the source disk to be duplicated into its virtual memory, it frees up both of your disk drives to crank out two copies at a time! The volume name of the source disk is always shown on the screen so you don't wind up duping a bunch of copies of the wrong program. An optional sound signal lets you do something else while DISKDUP takes care of the copying, calling you when it's time to pop in a couple more blank disks. A counter lets you know how many copies have already been made.

(PC-SIG Disk# 1451)

Special Requirements: *430K RAM.*
Author Registration: *$3.00 to $10.00.*

■ DiskDupe

DISKDUPE was made for folks who need to duplicate lots of programs or disks in various formats.

It's versatile! It copies 5.25" disks whether they are standard 360K, AT high-density 1.2M disks, or even CPM/86 with eight sectors. It also handles 720K and 1.4M 3.5" disks.

It's fast! It duplicates 360K disks in less than 58 seconds. Using pre-formatted disks, the time drops to less than 26 seconds. DISKDUPE uses your hard disk as a buffer so you can copy high-density disks exceeding your RAM memory without slowing down.

You can quickly format disks ahead of time, copy image files from a diskette onto your hard disk, and specify a list of hard disk image files to create or copy from. It runs manually, or along with special auto-loader hardware available from the author.

(PC-SIG Disk# 1279)

Special Requirements: *Hard drive.*
Author Registration: *$39.00*

■ EZ-COPY-LITE

Once EZ-COPY LITE reads the contents of a disk into memory, you can make as many copies as you want without your PC rereading the original disk. You can map out disk usage and find out information about a disk

regarding sides and sectors. If you choose, you do it all without typing in a single command. Just scroll across the pull-down menu and hit enter. As an option, you can use single character commands.

The DOS DISKCOPY command must spend about 27 seconds loading data every copy, EZ-COPY LITE does it only once. So, it saves you a minute every three or so disks. Even better, the program verifies the copy during each operation. Extensive, easy-to-read documentation is included in the package. The only thing to be wary of are memory-resident programs which chew into the 640K of memory required for EZ-COPY LITE.

(PC-SIG Disk# 1201)

Special Requirements: *640K RAM and DOS 3.0 or higher.*

Author Registration: *$39.00*

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CopyFit-It COPYFIT-IT makes copyfitting faster and easier. Figure out what typesetting format will make a text fit the space available for it in a layout. See *Word Processor and Text Utilities*.
(PC-SIG Disk# 898)

Copying, Disks See *Copy Utilities*.

Copyprotected Software programs stored on a disk in a manner that prevents the programs or data from being copied or backed up in any normal way. Shareware disks are never copy protected so you can make all the backup copies you want.

Corewar Test your skills at programming. You and an opponent write code one line at a time, the first one that writes a bad line loses the game. See "Follies" listed under *Games, Arcade*.

Cost Effective Tracking System A manufacturing bill-of-materials and costing system. Enter the cost of raw materials and labor for each manufacturing step. As jobs move through the line, the system computes the cumulative costs. See *Accounting, Job Costing and Bill of Materials*.
(PC-SIG Disk# 845)

Coupon This keeps track of grocery store discount coupons and can even monitor coupon expiration dates. See *Home Management*.
(PC-SIG Disk# 724)

Coupons, Record Keeping See *Home Management*.

CP/M (Control Program for Microcomputers) An early operating system used by eight-bit personal computers before there was MS-DOS.

CPA-Ledger A general ledger for service- or sales-oriented businesses. See *Accounting, G/L, A/P, A/R, Payroll*.
(PC-SIG Disk#'s 466, 468)

Crippleware Some programs claiming to be shareware are actually missing integral parts of the program. The user cannot use all the functions of the program. For instance, the program might not print or save files to disk, making the program incomplete and possibly useless. These authors promise to provide the missing pieces upon payment of registration. PC-SIG has gone to great lengths to keep its library free of crippleware.

Crisp A bookkeeping system perfect for real estate management of commercial and investment properties — up to 99 of them. See *Real Estate and Property Management*.
(PC-SIG Disk# 1346)

Critical Path Method See *Project Management*.

Cross Assembler See *Programming, Assembly*.

Cross Referencer, Source Code See Programming, (Specific Language).

Crossword Creator Design a crossword puzzle with the tools provided by CROSSWORD CREATOR. Define clues, save your designs and produce professional printed copies of your puzzles. See *Entertainment, General.*
(PC-SIG Disk#'s 819, 1142)

Crossword Programs See *Entertainment, General.*

Crystal Generate and view 3-D models of crystals. Built-in editor allows you to modify crystal structures from the included library or construct entirely new ones. See *Chemistry and Physics.*
(PC-SIG Disk# 1469)

Cultural Information, World See *Reference Materials (books/articles/information/data).*

Cunning Football You pick the plays! You carry the ball! You score!! Interactive menu-driven football in excellent graphic detail. See *Games, Arcade (Sports).*
(PC-SIG Disk# 1240)

Cursor CURSOR, for either monochrome or color, sets your cursor back to normal after some other program has changed it to a "blinkin blob." See "Xanadu Utilities" listed under *File Management Utilities.*

Cursor Change the size and speed of your DOS cursor to your liking. See "Armada Utilities" listed under *Word Processor and Text Utilities.*

Curve Fitting See *Math and Geometry Programs.*

Curvefit Mathematical computation of points on curves associated with different algebraic equations. See *Math and Geometry Programs.*
(PC-SIG Disk# 707)

Cut and Paste In word processing, the movement of phrases, sentences, and paragraphs within a file or between files. Every shareware wordprocessor lets you do things like snatching a sentence from the last paragraph of your letter and moving it wherever you want. For programs see *Word Processors, Text Editors, and Outliners.*

D

Dabutil DABUTIL offers hard disk users a half-dozen valuable utilities to help them maintain their files and disks. See *File Management Utilities.*
(PC-SIG Disk# 1176)

DAC Easy Tutor Learn basic principles of bookkeeping and how to use DAC EASY. See *Accounting, Education.*
(PC-SIG Disk# 1294)

Daily Bread Display a different verse or reading from the Bible every day. After a year, you will have read the entire Bible. See *Bible Study.*
(PC-SIG Disk# 1327)

Daisy Wheel Printer An impact printer with its characters located on the spokes of a rotating wheel. Images are made on paper when a hammer strikes a character, forcing it into an inked ribbon and against the paper. Graphics cannot be printed with a daisy wheel printer.

"Damn the Trivia - Our Priorities are Drowning," Edition II
An electronic book which discusses the development of systems designed for people (Peoplesystems) as opposed to systems designed for things (technology). See Reference Materials (books/articles/information/data).
(PC-SIG Disk#'s 972, 973)

DANCAD3D Advanced CAD program for producing and animating 2-D and 3-D wire frame drawings. Macro capability, symbol, and font libraries. See *CAD (Computer Aided Design) and Designing*.
(PC-SIG Disk#'s 701, 702, 703, 704)

Dark Continent A text adventure game that takes you to the heart of Africa. In DARK CONTINENT, you are on a safari expedition in search of King Solomon's legendary diamond. Find it and get back to England — by yourself! See *Games, Adventure and Text*.
(PC-SIG Disk# 967)

Data Generally, data can refer to anything stored on disk. More specifically, data may refer only to the information used by an applications program and not the program itself. For example, you feed data into a spreadsheet.

Database Publisher Store data on up to 2000 people, customers, patients, or whomever else is important to you with this database. Track time spent with clients. Print labels. See *Databases*.
(PC-SIG Disk# 854)

Database, dBase Utilities

■ dbScan

DBSCAN is an easy-to-use browsing utility that allows you to view the contents of dBase III files without having to enter the dBase program.

This is a stand-alone program you access from the DOS system prompt, and it allows you to view the .DBF files but not to change them. However, you have control of the fields displayed and where you want them displayed on the screen.

(PC-SIG Disk# 1324)

Special Requirements: *None.*
Author Registration: *$40.00*

■ DBSCREEN

DBSCREEN is a filter package that lets you create dBase II, III, and III+ screens. Instead of entering row and number designations into a format file, you simply "paint" your fields on your display in a full-screen edit mode. You can see exactly what your screen is going to look like. DBSCREEN also lets you modify and print dBase II, III, and III+ screen formats. Other programs let you modify character strings, change tabs into spaces, and encrypt/decrypt your files.

(PC-SIG Disk# 163)

Special Requirements: *None.*
Author Registration: *None.*

■ dLITE

DLITE brings powerful dBase III tools to PC resident memory, giving you instant access to 10 powerful utilities including a mailing list manager. Applications pop up at the press of a key while you are running other programs. You can edit, add, select, delete or undelete records, or paste the data from any dBase III file into spreadsheets or text files. Indexes can be altered at will. Output from the databases can be customized and data selected through highly defined filters.

DLITE has a natural home in the busy office where you spend a majority of the time running accounting or wordprocessing programs but must have instant access to database files when answering telephone queries. It's like having a multiuser program without needing to buy the expensive hardware and software that goes with it. An expensive and comprehensive mailing list manager comes with the package and customizing tools with the registered version.

DLITE includes two sample databases: the congressional directory and an index of articles in PC Magazine for the last three years.

(PC-SIG Disk# 1204)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Intelli-Trieve

INTELLI-TRIEVE is a "weighted retrieval" utility for users of dBase III, dBase III+ and compatible database managers. Weighted retrieval is a way of sorting database records with greater flexibility than a simple sort. The weighted retrieval sorts on multiple fields, but it allows you to put numeric "importance" on different fields and then totals your database's "score" over several different fields.

INTELLI-TRIEVE performs weighted retrieval by comparing each record in a database to user-defined selection criteria and produces a copy of the database with the records arranged in descending order of acceptability. The result is an entirely new view of your data, one that cannot be attained through standard indexing, filtering, or sorting operations.

A simple, menu-driven process lets you choose a database, indicate which fields are to be included in the weighted retrieval calculations, and how each field is to be judged and weighted, without the need to rework your database or your program. The function performed is nondestructive and leaves your original database files intact and creates new files with the data rearranged according to your sorting criteria.

(PC-SIG Disk# 811)

Special Requirements: *None.*
Author Registration: *$19.00*

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Databases

■ Classic Solutions

CLASSIC SOLUTION is both a language and a database manager — a system that creates fast, powerful business programs — today.

CLASSIC SOLUTION provides a quick and easy way to create screens and reports as they will appear on a terminal or printed page. It is also a data control system that keeps track of all the items of information — what they are, what they contain, what is valid data, and how each item relates to all the others; a data dictionary. A set of standardized tools is included so you don't have to rebuild the same logic over and over and also to let you use the same data entry techniques for each and every application.

CLASSIC SOLUTION supports an unlimited number of data files; limited only by the amount of available storage. Each data file can have more than 16,000 records and each record can have 1000 fields.

CLASSIC SOLUTION comes with an on-line tutorial to help you get started. It is fully menu-driven and extensively documented.

This version of the program is locked at 250 records, but by calling the author, you can unlock the program to a fully functional program.

(PC-SIG Disk#'s 1138, 1139)

Special Requirements: *Hard drive.*
Author Registration: *$65.00*

■ Database Publisher

DATABASE PUBLISHER is a menu-driven program which records and tracks any kind of data you wish to store on the people in your life or the customers of your business.

DATABASE PUBLISHER handles data for up to 2000 people, each with up to 100 categories. Records can be linked to multiple categories. Each record can contain information about a person, the status of an account,

purchase history, demographic information, or any other data you may need to manage. A telephone call timer even helps you charge customers for phone calls to consultants.

The program will print out sorted mailing labels by any combination of selected categories. The database information can be formatted into a booklet form, so the records can be printed either on a laser or dot matrix printer.

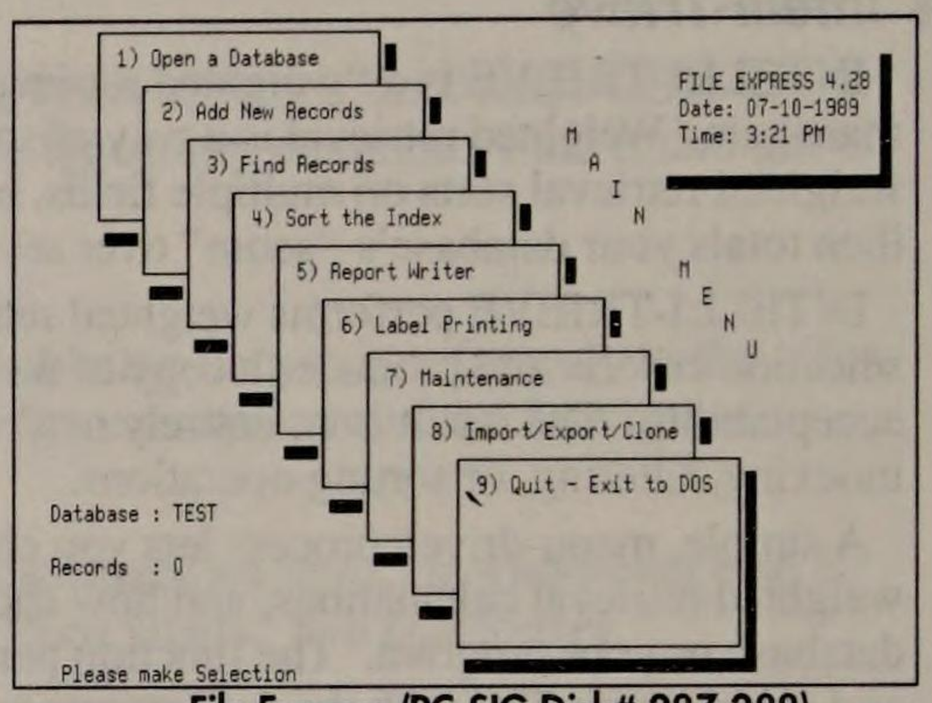
(PC-SIG Disk# 854)

Special Requirements: *Hard drive recommended.*
Author Registration: *$59.00*

■ File Express

FILE EXPRESS is a database management system that will be useful for both the novice and professional user. All commands are held within an easy-to-use menu system that will make handling your data almost effortless. FILE EXPRESS databases can handle an incredible 16 million records with 120 fields per record and 250 characters per field. You will find a powerful formula handler with if/then logic and math-and-string functions included. A report generator that allows full screen editing makes reports in a wide variety of formats that you determine. And if you're using FILE EXPRESS for an address list, you can print mailing labels up to five across.

With all these capabilities, tedious jobs like mailing lists, order processing, sales journals, billing and A/R, inventories, and summary reports will be done with more ease than ever imagined.



File Express (PC-SIG Disk# 287-288)

(PC-SIG Disk#'s 287, 288)

Special Requirements: *None.*
Author Registration: *$69.95*

User Comments: *"Excellent database. Fun to work with. Helpful maintaining sales contacts." "Excellent for home use. We use it for education."*

■ Free File

FREEFILE is a relational database system that lets anyone with little or no programming experience determine how files are to be created, enter information, and print reports.

It is particularly useful for someone interested in maintaining a collection of information with the ability to set up "calculated fields" and import or export data to and from other packages. FREEFILE has on-line help and two tutorials. It allows 10 indexes per database, 2 billion records, 1000 characters per record, and 100 fields per record.

(PC-SIG Disk# 521)

Special Requirements: *None.*
Author Registration: *$45.00*

User Comments: *"Easy setup. Perfect for simple database uses."*

■ Itemized Calculator, The

ITEMIZED CALCULATOR allows you to create an electronic list of item descriptions which automatically tracks quantities, prices, price extensions, and totals. Whether you're making a shopping list, tracking inventory, or updating stock portfolio transactions, the system does the job in a quick, straightforward manner.

The program helps you set up data files to define units to be tracked, the tracking category, and the unit costs. To use the program, call up the item and enter the number of units bought or sold and it does the rest, calculating costs and totals. It will also sort and print item lists according to description, price, or price extension, in ascending or descending order. The 60-page on-disk manual is clear and comprehensive.

With the advent of low-cost laptop computers, ITEMIZED CALCULATOR has 1000 uses ranging from recording rack-jobbing inventory to listing sales, revenue, and expenses for a flea market operation.

(PC-SIG Disk# 1375)

Special Requirements: *None.*
Author Registration: *$39.00*

■ Multi Base

MULTI-BASE is a database management system that has many sophisticated features to complement its simple file management capabilities.

The program has a built-in screen definer, report writer, forms generator, and menu generator. MULTI-BASE can handle as many records in a database as the space on your hard disk will allow. In fact, when first defining your database, you tell how many records you believe you will need, and MULTI-BASE will allocate the needed space for these records.

The system can be completely menu-driven or you can use simple command language to manipulate the data in your database. Since the representation of the data, format of the reports, and menus are all determined by you, MULTI-BASE offers a great deal of flexibility in the way you use the program.

(PC-SIG Disk# 971)

Special Requirements: *Printer.*
Author Registration: *$35.00*

■ Multifile

MULTIFILE is a memory-resident database program designed specifically for mailing labels, membership files or small inventories.

It is a menu-driven utility that arranges your data into one to six equally spaced columns which can then be used for lists, mailing labels, envelopes, or printouts on paper for windowed envelopes. Columns can be sorted so data will appear in alphabetical or numerical order. The totals for each column can be calculated and printed. Other corresponding columns can be sorted by one particular column.

You can delete, edit, or search for a particular entry. Each file can be saved or loaded from the disk. Two sample files are included to help you become familiar with the program.

(PC-SIG Disk# 835)

Special Requirements: *None.*
Author Registration: *$10.00*

User Comments: *"I highly recommend this program to other novices. But it's important to be aware that this disk only prints labels one across."*

■ Muse

MUSE is a specialized database for authors and their agents to organize the circulation of manuscripts to publishers.

This is especially useful when sending multiple or simultaneous submissions. Keep track of queries, submissions, publishers' responses, acceptances and publications, as well as current mailings. Review the status of any manuscript at any publisher at any time. Mail merge the address in the files with appropriate form letters and print letters on one printer and envelopes on another.

(PC-SIG Disk#'s 635, 636)

Special Requirements: *Two floppy drives.*
Author Registration: *$15.00*

■ NewBase II

NEWBASE is a menu-driven database manager for mailing lists, name and address lists, sales reports, expense account maintenance, and budget preparation and maintenance. The program is a data management system that makes it easy for you to organize and manage information. Thus, you can later order, change, or retrieve, and then print the data to suit a variety of circumstances. The database limits are: 36 fields per record; 2500 records; 32,000 records per data file, and a field size of 750 characters.

NEWBASE also interfaces with many of the most popular wordprocessing systems. This program's primary design consideration has been ease of use by non-technical users.

Features:

- Multi-key sorting
- Searching for less than, greater than, equal to, included, not, etc.
- Global update/edit multiple records with a single entry
- Audit trail
- Statistical summaries
- B-tree indexing
- Lookup tables
- Macro keys
- Single-keystroke entry of repetitive data
- Protected fields
- Date fields
- Invisible fields
- Numeric accuracy to 16 digits
- Report and form library

(PC-SIG Disk# 233)

Special Requirements: *Two floppy drives.*

Author Registration: *$39.00*

■ Newsbase

NEWSBASE is a convenient and powerful database application to help you keep track of the contents of each issue of a periodical. It is great for publishers of journals, magazines, and newsletters, as well as radio and television broadcasters. Articles, descriptions, synopses, or keywords and phrases are entered along with the column number, page number, volume, and issue date. The search function can then find the article related to a particular subject by entering a keyword or phrase, or it can list all the descriptions of articles entered within a certain time frame. Afterward, you can get the list printed or saved for later use to an ASCII file.

NEWSBASE is terrific for doing any kind of library research, such as for term papers (especially when used on a laptop). Reporters in newsrooms will also find it useful for keeping their "morgue" (files of old stories) organized and easily accessible. So whether you are an investigative reporter hot on a story, a bewildered publisher/editor needing to keep track of materials, or a student struggling on a term paper — NEWSBASE will help you stay on top of the information jungle.

(PC-SIG Disk# 715)

Special Requirements: *None.*

Author Registration: *$19.00*

User Comments: *"Helps in cataloging, magazines and articles. Very useful." "Good for listing references and brief notes." "Great for collecting tidbits from the news media."*

■ PC-File+

PC-FILE+ has all the tools necessary for business persons, home owners, and anyone else who wants to organize and keep track of information and write reports.

PC-FILE+:

- is menu-driven
- has context-sensitive help screens throughout
- has more organized command structure than previous versions
- is much faster than earlier versions
- allows more than 65,000 records per database
- will draw charts (pie, bar, line. etc.) from user-supplied data

The reporting and mail label capabilities of the program, as well as its capability to use data from multiple databases, give the program a powerful relational factor.

PC-FILE+ is dependable and easy to use. It has the kind of advanced features — summary graphics, strong report options, and date arithmetic — typically found only in much higher priced commercial programs.

(PC-SIG Disk#'s 5, 730, 1015)

Special Requirements: *384K RAM and two floppy drives.*

Author Registration: *$69.95*

➤ ***ASP member.***

User Comments: *"Lives up to what others say about it." "I probably cannot add more than has already been said about this well- reviewed program. Used it very happily for several projects." "Super. Powerful. Quite happy with it. I like the macros. Best database program for the money. You get a 290+ page manual on disk." "Superb, flexible and very friendly. I especially appreciate the free form features in setting up bases."*

■ PC-File:dB

Most databases can only try to be this good. PC-FILE:dB is the newest upgrade to the menu-driven favorite — PC-File+. This program maintains the ease of use that has made PC-File so popular, while adding dBase file compatibility to its long list of powerful features.

More than the ability to import or export files created with dBase, PC-FILE:dB has actually adopted the same file format used by dBase and other dBase compatibles. If you have a dBase file to work on, you can use it immediately — without conversion. Likewise, a database created using PC-FILE:dB is ready to be shared with your friends who are still using dBase.

But don't call PC-FILE:dB a dBase clone. To the user, PC-FILE:dB looks and feels just like PC-File+; well-designed menu screens guide you through easy operation. There is no need to learn any special programming language or command structure. While this look is the same as PC-File+, you will notice a few enhancements over PC-File+ that are very useful, such as the ability to specify a date field to calculate the passage of time.

If you have any database experience, you may be able to use this program without reading the manual. Nonetheless, if you're new to databases or computing in general, the documentation manual on the third disk of this set is the complete manual covering every detail of PC-FILE:dB.

And to any power-user who may feel the urge to scoff at a menu-driven database, PC-FILE:dB has a list of features that rivals any database on the market. Look closely and you might even see a few things dBase is lacking.

Features:

- Graphing capabilities to summarize large volumes of data into a quickly understood picture: line graphs, horizontal and vertical bar charts, stacked bar charts, pie charts, cumulative bar and line charts, and scatter charts
- Built-in text editor giving you mail merge capabilities, all within PC-File:dB
- On-line help at every screen that can be activated to provide a "teach mode" for new users
- Optional "paint-method" screen design to customize the data entry screen of your database
- Macros/smart keys, 22 per database, that can store up to 318 keystrokes each
- Calculation fields that can be figured based on arithmetic computation, dates, or relational linkages using data from other fields in the database
- A quick reference card of important keys that can be printed on your printer
- The ability to search for text within memo fields

Even avid dBase users should consider using PC-FILE:dB with dBase. PC-FILE:dB can be a faster, easier way to browse records, update files, and perform other tasks that can be cumbersome in dBase.

Although database files created with other versions of PC-File are not compatible with PC-FILE:dB, they can be quickly converted using a conversion utility included with this program. Additionally, databases used with PC-FILE:dB cannot have more than 70 fields.

(PC-SIG Disk#'s 1236, 1237, 1238)

Special Requirements: *416K RAM and a hard drive.*

Author Registration: *$89.95*

➤ ***ASP member.***

■ PDS*BASE Database System

A complete hierarchical database system of the master/detail (or mother/daughter) type and, although written for BASIC programmers, is particularly well-suited to inventory systems, payroll, or job control systems.

A series of program generators create both a custom database (with up to 10 files) and BASIC programs to operate against the custom database. The generated programs can be easily modified. The system has excellent documentation and BASIC source code is included.

This is the database management system for anyone who doesn't want to go to the expense and trouble of learning a new programming language.

(PC-SIG Disk#'s 396, 1025)

Special Requirements: *A version of BASIC and two floppy drives.*
Author Registration: *$40.00*
➤ASP member..

■ Profile

PROFILE is a database that stores important names, addresses, and phone numbers. You can print labels and reports with several sorts, including third-class bulk mail. Labels can be printed up to four across and can be processed according to 15 pre-defined setups and a custom configuration.

The reports function can perform customized column calculations such as running balances, percentages, spreadsheet formulas, scientific calculations, etc. They can summarize columns and have invisible columns for intermediate calculations. Each report can be up to 64 columns or 255 characters wide.

PROFILE has a mailmerge function compatible with WordStar, WordPerfect, DEC WPS, Multimate, and PC-Write. ASCII data can be imported or exported in several formats. If you use dBase II/III/III+, your files can be converted to PROFILE format. PROFILE can manage large databases with its powerful search capabilities.

All commands use pop-up and Lotus-style menus for ease of use.

(PC-SIG Disk#'s 1002, 1003)

Special Requirements: *None.*
Author Registration: *$29.95 or $44.95.*

■ Quiksort

QUIKSORT is a high performance sort/merge utility for processing large data files.

Sort an unlimited number of files and merge up to 16 files. Supports file sizes of up to 32 megabytes. An unlimited number of key fields and many different key field types are allowed. Records can be fixed or variable-length, and record lengths can be up to 32 kilobytes. Extensive input record selection and output record formatting are supported.

QUIKSORT outputs records, key fields, pointers, or key fields and pointers. Even wild card characters are allowed in file names. It sorts Btrieve and dBase III files and also provides high-language interfaces for a called subroutine. An outstanding sort/merge utility, QUIKSORT comes with extensive documentation.

(PC-SIG Disk# 1152)

Special Requirements: *None.*
Author Registration: *$40.00*
➤ASP member.

■ Snap Filer

SNAP FILER is a compact, memory-resident database program with many of the features of a built-in spreadsheet for use with jobs too small or short-term to require a complicated database.

Organize data like a table or spreadsheet, with rows and columns displayed on-screen. Pull-down menus help make this program easy to operate. Keep track of names, addresses, sales, or anything else that can be kept in a list. Define and use dates, times, names, and dollar amounts for fields, with automatic proofing and formatting for each. You can sort, search, and calculate the data in each file. SNAP FILER uses formula relationships in fields, with automatic recalculation after each entry.

Print reports, either the current file or a certain block of data. Import and export files in DIF format to other software packages, such as Lotus 1-2-3.

(PC-SIG Disk# 1043)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Wampum

WAMPUM is a dBase-compatible, menu-driven DBMS. It will use files created with dBase and run programs written in dBase lanquage. In addition, WAMPUM also has a NetBIOS compatible record and file-locking network-support.

Features include up to 10 automatic, semi-automatic, and custom data entry screens per database for use in adding, editing, displaying, printing, deleting, and undeleting records. WAMPUM creates and uses dBase-compatible report and label templates as well as form letters. Menu-driven Boolean selection assistant makes extraction of data easy for the novice. Applications can be created for end-users that provide sophisticated error checking, table look-up, calculated fields, and virtually limitless edit checking to assure desired data entry is accomplished as anticipated.

(PC-SIG Disk# 830)

Special Requirements: *512K RAM and a hard drive or two floppy drives.*
Author Registration: *$25.00 per PC or $75.00 per network.*

User Comments: *"Good disk. Well written. Convenient, versatile, and fast."*

■ ZoomRacks

Organize everything — home or business — with one of the premier information management systems in all the IBM PC world, ZOOMRACKS. More than a great database, ZOOMRACKS uses its patented card and rack metaphor to allow you to organize everything from business letters to your finances. Whole businesses are running on ZOOMRACKS alone.

ZOOMRACKS is based on a simple, real world object: Racks which contain cards that have information on them. Imagine a rack hanging on the door of a doctor's examining room that holds cards containing the patients' medical records. The top of every card is visible when looking at the entire rack, so you look for the desired patient's record then pull that card and view it. Essentially, this is how ZOOMRACKS operates on your computer.

This simple idea makes ZOOMRACKS one of the fastest and easiest databases to use, according to Compute! Magazine which bestowed its 1989 Choice award on ZOOMRACKS as one of the 13 best products of the year, and the best database. With full text searching, a powerful macro language, on-line help and the multi-talents of database and word processor — as well as many of the functions of a spreadsheet — there should be little wonder why ZOOMRACKS is zooming into both homes and businesses as the "do all" program everyone wants.

Unlike a traditional database where you are limited by the fields specified, ZOOMRACKS gives you the option of putting anything you want on a card, including information into preset fields. If you want to write a letter, go to a card and start writing. Wordprocessing is an integral part of ZOOMRACKS. If you want to organize class notes, maintain records of all business correspondence with your clients, or manage your home budget, ZOOMRACKS is a powerful solution.

Like a spreadsheet, ZOOMRACKS uses templates. You define what kind of information you will be storing in a rack by defining a rack template. You can change the format of any rack at any time. You can add fields, sort fields, rearrange and move fields, perform mathematical functions, change the names or the widths of fields, even change the name of the rack, if you like. You can easily build your own templates or use pre-designed templates, which are also available from PC-SIG, for home management, general business, and accounting.

Many will see a similarity between ZOOMRACKS' ability to zoom-in on a part of the screen and pull up additional information, even pictures, to that of the "HyperCard" concept. Interestingly, ZOOMRACKS was actually developed before HyperCard.

It does takes time to learn the initial commands, but the program is very convenient to use once learned. Help screens and a tutorial are included. Works great with or without a mouse.

(PC-SIG Disk#'s 1287, 1288)

Special Requirements: *384K RAM.*
Author Registration: *$89.95*

■ ZoomRacks Business Kit

This BUSINESS KIT for Zoomracks, the database that uses the cards and racks approach, will allow you to computerize your company without changing the way you are used to doing business.
This collection of 37 templates, 47 output forms for printing, and 10 macros, works within Zoomracks to help you: Keep aware of appointments and things-to-do today; know what inventory you have on hand; maintain investor lists for mailings and other purposes; print invoices, follow up for payment; write memos, track for followup; keep your name and address records; catalog your business forms; index your office files; track orders as they come in, use to predict cash needs; and log phone calls that should be returned.
View price lists when invoicing; track P.O.s; log what you ship; track things to do sorted by priority; prepare meeting agendas; find the area code for a state; keep your corporate assets; balance your checkbook; print checks, find the check you wanted; find your corporate IDs, tax and insurance numbers; use it for correspondence, search for letters; access customer records quickly; keep vendor records and quotes on hand and much more. Since this is a series of templates, you have the option of fine tuning the package to meet your particular business needs.
(PC-SIG Disk# 1289)

Special Requirements: *Zoomracks (PC-SIG disk #s 1287, 1288).*

Author Registration: *$49.95*

File Descriptions:

GENERAL	ZRX	General Information.
AGENDA	ZRX	Keep meeting agenda.
ARCHIVE	ZRX	Archive of old cards in MISCDOCS & TASK1.
AREACODE	ZRX	List area codes, states and cities.
ASSETS	ZRX	Keep track of business assets.
BCHECKS	ZRX	Keep tracks of checks and deposits.
BNAMES	ZRX	List of names and contacts.
BUSFORMS	ZRX	Rack of output forms to use with the Business Starter Kit.
BUSKIT	ZRX	A list of all the racks in the Business Starter Kit.
CMPNYNOS	ZRX	Corporate ID numbers.
CORRESP	ZRX	Correspondence rack - same as MISCDOCS.
CUSTOMER	ZRX	Customers and prospects.
DAILY87	ZRX	Appointment calendar for 1987.
EMPLOYEE	ZRX	Employee records.
EXPENSES	ZRX	Keep track of daily expenses.
INVENTRY	ZRX	List of inventory items.
INVESTOR	ZRX	Keep list of corporate investors.
INVOICES	ZRX	List of invoices, sales orders, backorders.
MACBUS	ZRX	Macros used in Business Starter kit.
MEMOS	ZRX	Write brief memos, print them out and let people.
MISCDOCS	ZRX	Rack of miscellaneous documents.
OFFFORMS	ZRX	Catalog office forms.
OFFICEFL	ZRX	Record of office files.
OFFPROC	ZRX	Description of office procedures.
ORDERS	ZRX	Record list of sales orders received.
PAIDINV	ZRX	Your paid invoices / receivables.
PAYABLES	ZRX	List of payables, also purchase orders and paid bills.
PAYROLL	ZRX	Payroll records.
PHONELOG	ZRX	Log of incoming phone calls.
POLICIES	ZRX	Policies.
PRICEL	ZRX	Product price list.
PROSPECT	ZRX	Prospects. Uses same template as customers.
PURCHORD	ZRX	Outstanding purchase orders.
RACK27F	ZRX	General purpose 27 field rack.
SHIPLOG	ZRX	Keep a log of things shipped.
TASK1	ZRX	Rack for a special task.
TICKLER	ZRX	Tickler items. Macro F7 F will find key card.
USINGZR	ZRX	Rack of hints and suggestions on using Zoomracks.
VENDORQU	ZRX	Vendor quotations.
VENDORS	ZRX	Vendor records.

■ ZoomRacks Home Starter Kit

Get rid of those manila envelopes and those shoe boxes full of old records, this HOME STARTER KIT for Zoomracks lets you put all your home management paperwork on a computer painlessly.

Zoomracks, the program selected as the best database for 1989 by Compute! Magazine, uses a revolutionary but simple "cards and racks" approach to data management that will let you harness the power of computing without complicating your life.

This collection of 35 templates, 35 output forms for printing, and two macros, works within Zoomracks to help you:

Find phone numbers; keep track of birthdays; document warranties, service and parts information about your appliances or vehicles; keep track of appointments and things to do; record what was said in important phone calls; find out how much you made and how much is left; and find that favorite recipe, that clipping you saved, and notes of your letters and who wrote last.

What book had the pattern with the owl? What coupons can you use? Record your family's medical history. What's in the freezer and where? Know what both you and they gave last year. Did we loan someone that? Where did we store that? Keep insurance records in case of theft, note the dividends and expenses for tax records, keep track of sicknesses, catalog your tapes, print shopping lists, renew your subscriptions only when they expire, and much more.

All templates can be changed to best serve your particular needs. You will need Zoomracks to run the HOME STARTER KIT.

(PC-SIG Disk# 1290)

Special Requirements: *Zoomracks (PC-SIG disk #s 1287, 1288).*
Author Registration: *None.*

File Descriptions:

APLIANCE	ZRX	Appliance records.
BOOKS	ZRX	Library of books.
CALENDAR	ZRX	Daily calendar of appointments, events, and things.
CALLREC	ZRX	Record of phone calls and what said.
CAMPEQP	ZRX	Used to list camping equipment.
CANNING	ZRX	List of home canned items, recipes, inventory.
CKBKINDX	ZRX	Index to recipes in cookbooks.
CLIPPING	ZRX	List of magazine and newspaper clippings and location.
CLOTHSIZ	ZRX	Keep track of people's clothes sizes and styles.
CORRSPND	ZRX	Keep track of letters sent and received.
COUPON	ZRX	List of grocery coupons.
CRDTCRDS	ZRX	List of credit cards for limits and stolen.
DISKINDX	ZRX	Index of Atari disks.
EATERIES	ZRX	Where to go for dinner? Search and sort. Comments.
FAMCNTRT	ZRX	Record family contracts and agreements.
FAMHLTH	ZRX	Keep information on illnesses, vaccinations, sickness.
FRZRINVT	ZRX	Keep freezer/ refrigerator inventory.
GIFTS	ZRX	Record of gifts given and received.
HCHECKS	ZRX	Used to balance checkbook and keep track of expense.
HFORMS	ZRX	Rack of output forms for use with Home starter pack.
HNAME	ZRX	Names, addresses, phone numbers, christmas cards, etc.
HOMEINV	ZRX	Home inventory records for insurance purposes.
HOMKIT	ZRX	List of all the racks on this disk.
IMPDATES	ZRX	List important dates in date order.
INVEST	ZRX	Keep track of stock investments.
ITEMLOAN	ZRX	Record Items loaned.
LOCATOR	ZRX	List of locations of things (and who took them).
PETS	ZRX	Keeps updated on health information.
PRESCRIP	ZRX	Keep list of prescriptions for family members.
RECIPES	ZRX	Recipe card file.
RECORDS	ZRX	Phonograph records catalog.
SHOPPING	ZRX	Shopping List.
SOURCES	ZRX	Keep track of information sources on subjects of interest.
SUBSCRIP	ZRX	List of subscriptions and expiration date.
USINGZR	ZRX	Rack of hints and suggestions on using Zoomracks.
XSTITCH	ZRX	List of books with cross stitch patterns.

■ ZoomRacks Small Business Kit

Whether you find accounting procedures confusing or, on the contrary, are an accounting professional but would like to save time and effort, the SMALL BUSINESS KIT used as a template to Zoomracks may be the answer.

This is a strong general accounting package that has built itself around the advantages of Zoomracks, the award winning "rack and card" database.

Templates are included for: accounts receivable, accounts payable, general business transactions, trial balance, income (profit and loss) statement, balance sheet, payroll, adjusting entries, calendar, cash journal, notes payable/receivable, check register. Each template comes with field descriptions, usage notes, pre-designed report formats and more. All of these individual templates combined form a complete accounting system.

Macros have been included to simplify recording accounts receivable and accounts payable transactions, performing balance sheet and income statement computations, calculating gross profit, calculating working capital, taking the trial balance, posting payroll payments, and printing checks. Each macro comes with a description of how to use it.

(PC-SIG Disk# 1291)

Special Requirements: *Zoomracks (PC-SIG disk #s 1287, 1288).*

Author Registration: *$49.95*

File Descriptions:

ACCKIT	ZRX	A list of all the racks in this kit.
ACHECKS	ZRX	Collection of checks to be printed.
ADJUSTS	ZRX	Rack of adjusting entry cards.
AFORMS	ZRX	Rack of output forms to use with this kit.
BALBLANK	ZRX	Company balance sheet—blank.
BALSHEET	ZRX	Company balance sheet—sample.
DIALY88	ZRX	Calendar for 1988.
LDGRACTS	ZRX	List of ledger accounts and account numbers.
MACACC	ZRX	Macros used in this kit.
NOTEPAY	ZRX	Notes payable register.
NOTERCV	ZRX	Notes receivable register.
PANDL	ZRX	Profit and loss (income) statement—sample.
PAYABLES	ZRX	List of payables (purchase orders and payments).
PAYROLL	ZRX	Payroll records.
PLBLNAK	ZRX	P/L (income) statement, blank plus usage instructions.
SALES	ZRX	List of invoices, sales orders, and backorders.
TRIALBAL	ZRX	Trial balance.
USEAKIT	ZRX	Rack of notes on using this kit.
USINGSRX	ZRX	Rack of hints and suggestions on using Zoomracks.
X8086	ZRX	Sample archived transactions for June 1986.
XACTS	ZRX	Simplest form of recording business transactions.
ZACCTPAY	ZRX	Special-purpose accounting racks.
ZACCTRCV	ZRX	Special-purpose accounting racks.
ZCASH	ZRX	Special-purpose accounting racks.

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DataPlot Produce publication-quality graphs for scientific and engineering data. See *Math and Geometry Programs*.
(PC-SIG Disk# 1059)

Date and Time No clock card in your PC? Here's a way to quickly enter the time and date on your computer. See *Utilities, System or Hardware*.
(PC-SIG Disk# 908)

db-VCR Catalog your VCR collection for quick searches to find that favorite movie. Prints sorted lists and supports a mouse. See *Movie/VCR/Music Databases*.
(PC-SIG Disk# 1347)

dBase The name of a succession of commercial database programs known as dBase II, dBase III+, etc. This relational database program is similar to the shareware program Wampum. See "Wampum" listed under *Databases*.

dBase Programming See *Database, dBase Utilities.*

dBase Utilities See *Database, dBase Utilities.*

dBase: File Compatible Databases See *Databases.*

DBS-Kat DataBase An easy practical diskette cataloger for users of hard disk systems who use floppies for backup or who have a large library of floppies to keep track of. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 537)

dbScan Browse through those dBase II or III files without going into dBase. See *Database, dBase Utilities.*
(PC-SIG Disk# 1324)

DBSCREEN Create dBASE II and III screens by simply "painting" your screen. DBSCREEN creates the source code for each display. See *Database, dBase Utilities.*
(PC-SIG Disk# 163)

DCA Conversion for PC-Write Convert text and data files from IBM mainframe EBCDEC format to DCA format for use on your PC! Or convert from PC to mainframe. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1295)

Dcopy DCOPY is an enhancement of the MS-DOS COPY command. You can still copy files, but you control the copying process based on the file's creation/revision date. See *Copy Utilities.*
(PC-SIG Disk# 936)

Dear Teacher HP Laser Font Fun program that enables the HP LaserJet II to print everything in a font that looks like a child wrote it, complete with backwards letters. See Printer Utilities, Laser.
(PC-SIG Disk# 1228)

Debug, DEBUG Debugging is the act of removing errors from a program. DEBUG is an MS-DOS utility used for that purpose. DEBUG lets programmers modify programs and data stored in binary or byte form. See your DOS manual for more information on DEBUG.

Decision Analysis See *Project Management.*

Decision Analysis System A two-part decision-making system. DMM is based on probable data, while PCM is subjective analysis. Both are used to give you the optimal solution. See *Artificial Intelligence.*
(PC-SIG Disk# 953)

Decryption Decoding or changing information from a secret code to a usable form. For programs see *Security — File, Disk, or System.*

Deep Space It's like having a planetarium on your PC. DEEP SPACE shows constellations and creates star charts you can view in 3-D! A voyage through our solar system and beyond. See *Astronomy and Space Exploration.*
(PC-SIG Disk#'s 866, 867)

Default The default setting is the assumption a computer program makes unless given contrary information. For instance, your wordprocessor may assume a certain "default setting" on the page margins unless you tell it differently.

Delimit, Delimiter To delimit is to establish limits or bounds by placing a marker to separate the beginning or end of a special part of a computer program or data file. A delimiter is the symbol or character used as a marker.

Demo To demonstrate a product or program. Many shareware programs have demo modules that show you how they work.

Demonstration Programs See *Presentation Graphics (Slides).*

Dental Office Record Keeping See *Business Specific Systems.*

Dental P.M.S Say "AH!" The DENTAL PATIENT MANAGEMENT SYSTEM manages your practice! Tracks treatments and manages A/R, insurance, billings, and follow-ups. See *Business Specific Systems.*
(PC-SIG Disk#'s 1251, 1252, 1253, 1254, 1255)

Designer, The Create animated graphics in BASIC with this programming tool. Experiment with the included source code and modify it to your needs. See *Programming, BASIC.*
(PC-SIG Disk# 69)

Desktop Organizers

■ Alt

ALT combines the best features of several well-known utility programs to do just about every thing. ALT is a RAM-resident editor, disk manager, calculator, address book, appointment calendar, multi-tasking platform, and more.

Each of ALT's features is complete, from the disk manager, with disk information and file tagging capability, to the calculator with more functions than most $35 hand-held units. ALT can record keyboard macros to save common keystrokes. There is even a cut and paste feature to copy blocks of text from one program to another.

ALT's multitasking platform swaps programs in and out of memory, letting you work on a spreadsheet and write a business letter at the same time. This, combined with the cut-paste function, makes it worth any price.

Rounding out ALT's functionality is a command menu for running commonly called programs. This menu can have submenus, and each program pauses for options for the program (as if from the DOS prompt). With registration comes expanded capacity, on-line help, technical support, and a disk services program (undeletes files, edit sectors, etc.).
(PC-SIG Disk# 1189)
Special Requirements: *Hard drive.*
Author Registration: *$29.95*

■ Compass Desktop Manager

COMPASS is the first integrated program that combines six major programs and utilities into one program. It has the following modules:

- Database — A full-fledged database you can use to add, change, and delete information
- Wordprocessing — A functional wordprocessor with all the abilities you'd expect to find: automatic word-wrapping, text block editing, utilities, and more
- Spreadsheet — A complete spreadsheet program, with 315 cells (A- G columns, 1-45 rows) that should meet any small to medium calculating needs you have
- Accounting — A built-in, single-entry accounting package that can track up to 999 different income and expense sources, give you a month-to-date and year-to-date report, and show balances by account number. It has three report statements (an account number listing, a monthly transaction report, and an income statement), and an easy-to-use, end-of-period processing utility
- Calendar — A module to keep track of all your appointments on your schedule, displaying them either by day or by month
- Names — A built-in mailing list program
- Utilities — A set of five major utilities built-in: list empty disk space available, show a directory of the disk, copy files from one disk to another, run other programs without leaving COMPASS, and set up the parameters of COMPASS

COMPASS is the perfect program for the lap-top computer user on the go. It is easy to use, runs from one floppy disk, and is completely self-contained. It is also great for beginners.
(PC-SIG Disk# 764)
Special Requirements: *320K RAM and CGA.*
Author Registration: *30.00*

■ Ez-Desk

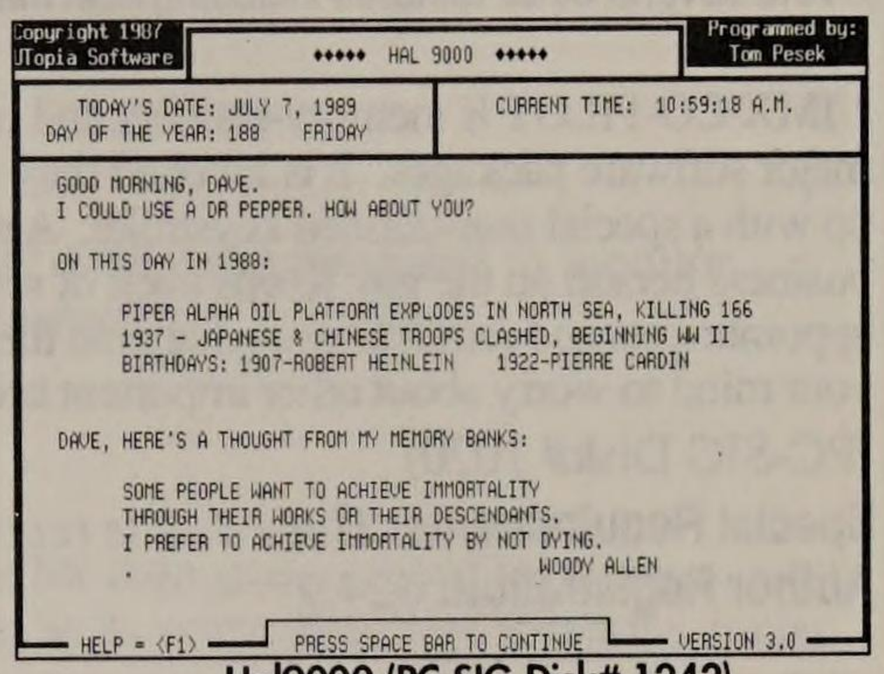
EZDESK transforms your computer into an integrated, on-line office.

This single program handles wordprocessing, client lists, account tracking, scheduling, mailings, autodialing, telecommunications and filing.

EZDESK gives you an appointment calendar with notes. The wordprocessor takes care of your letters and reports with the ability to run form letters with automatic mail merge. The mail handling program generates mailing lists and labels and works with your wordprocessor. The mailing lists can be edited and merged. You can build a client file, track your accounts and get reports on their status. An agenda option lets you maintain personal agenda information as well as use an auto-dialer to call your office or home.

(PC-SIG Disk# 1256)

Special Requirements: *512K RAM and a hard drive.*
Author Registration: *$90.00*



Hal9000 (PC-SIG Disk# 1242)

■ Hal9000

Hal is back and he's in charge of your system! Hal, the mutinous, homicidal computer from the movie "2001, A Space Odyssey" wants to keep you organized and on schedule with unnerving prompts like, "I'm sorry, Dave, but ..." He'll not only tell your fortune, he'll cue you in as to what happened historically every day.

HAL9000 is an almanac, philosopher, clock/calendar, and a memo calendar all rolled into one. He comes complete with sound track music from the movie. When invoked, he displays time and date, what famous birthdays occur that date and a humorous, informative quotation. The opening screen can display a short memo the user designated for that date. HAL9000 has a separate pop-up screen to track appointments, and another screen displays a three month calendar.

To use the Almanac, enter any date and HAL will respond with what happened on that date in history. The Fortune Cookie generates an electronic fortune based on your sex and birth date.

(PC-SIG Disk# 1242)

Special Requirements: *None.*
Author Registration: *$20.00*

■ HomeBase

HOMEBASE is a complete desktop organizer, and has at least one up on SideKick. PC Magazine even went so far as to say, "One way to look at it is to say that Borland's product is a first-generation organizer, while... (HOMEBASE) is a second- or third-generation. It delivers the most bang for the buck among desktop organizers."

Primary HOMEBASE functions include a DOS shell, database system, editor/wordprocessor, calendar/appointment book, terminal communications, calculator, and cut-and-paste operations. HOMEBASE will run with two disk drives, but it's really designed for computers with hard drives. It requires only 180K of memory when resident in memory.

Once installed, HOMEBASE can perform communication tasks quietly in the background while other programs are running. Someone can call your computer while you are working in another program, give or get the information they need and you don't even have to exit your application. HOMEBASE informs you of the call, but doesn't demand that you quit what you're doing.

(PC-SIG Disk#'s 728, 729, 1112)

Special Requirements: *Hard drive or two floppy drives.*
Author Registration: *$89.95*

User Comments: *"Excellent desktop. I like the sample starting program as well as the main program."*

■ IMX Co-Pilot

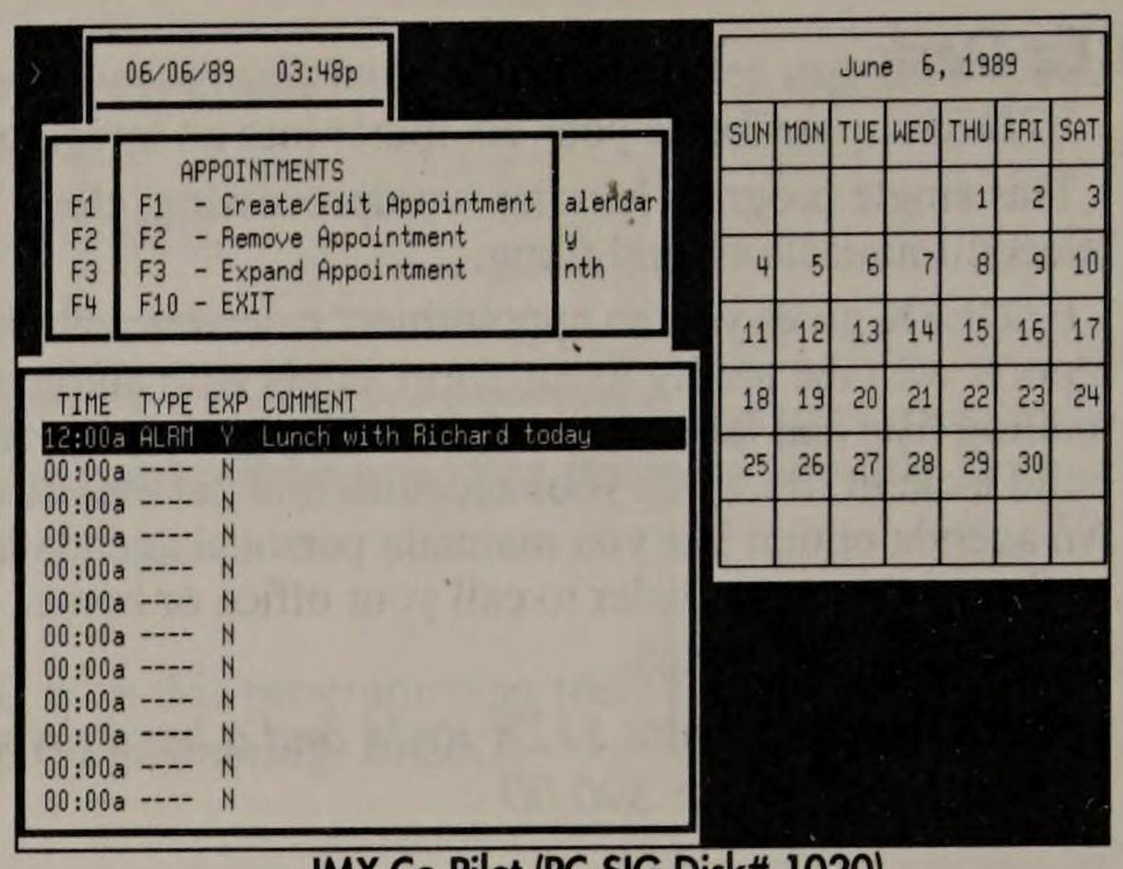
IMX CO-PILOT is a desk organizer program that includes the following subsections:

- A calculator
- Appointment calendars with alarms
- Phone and address books with label printing capability
- A notepad for any type of messages
- And several other features including disk management utilities.

IMX CO-PILOT is memory-resident and runs with most major software packages. It is invoked only when you call it up with a special user-defined keystroke. A must for the business person on the go. Keeps track of several different appointments and reminds you what time they are, freeing your mind to worry about other important tasks.

(PC-SIG Disk# 1020)

Special Requirements: *Hard disk is recommended.*
Author Registration: *$24.95*



IMX Co-Pilot (PC-SIG Disk# 1020)

■ PC-DeskTeam

Take control of your PC and manage your work more efficiently with this desktop manager. RAM-resident or stand-alone, PC-DESKTEAM maintains eight accessories — one keystroke away!

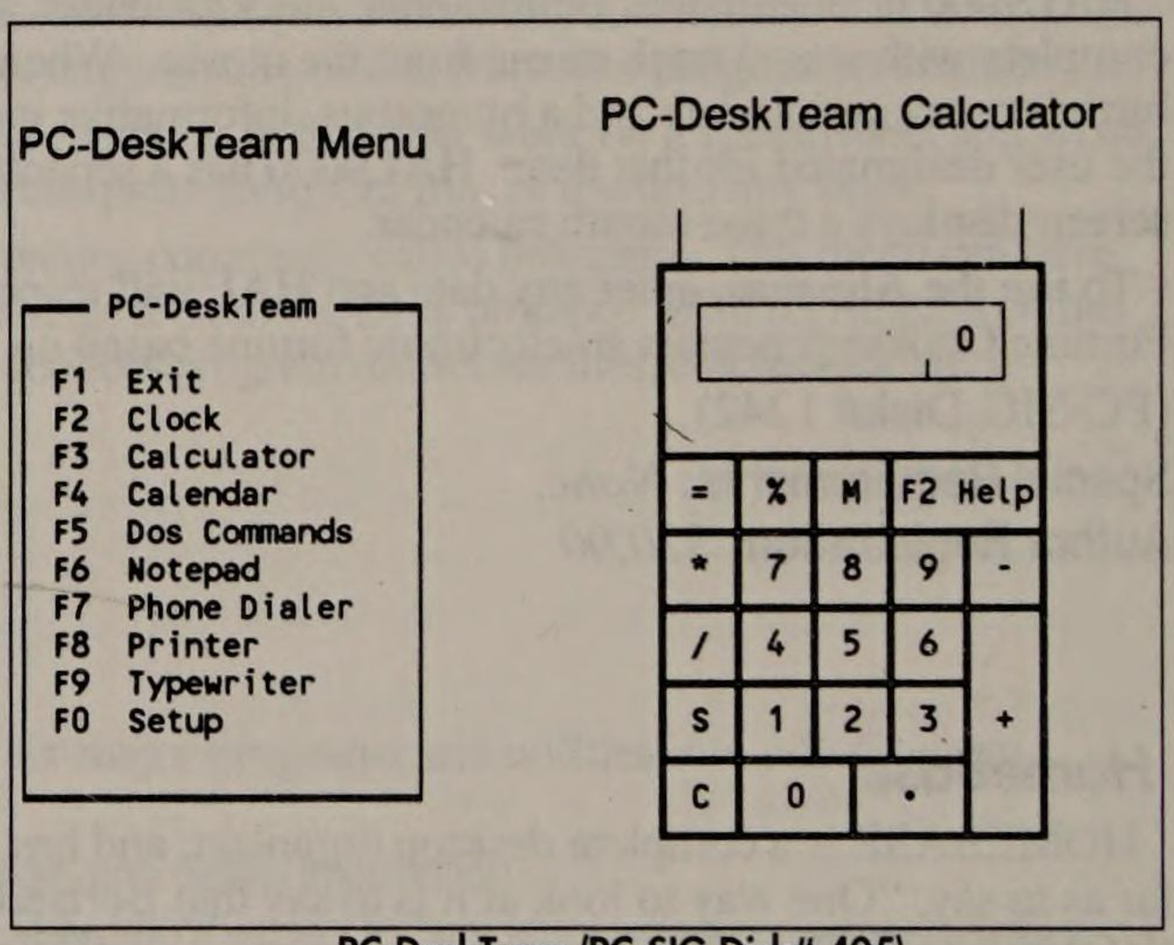
This menu-driven system keeps a calendar to remind you of appointments; an alarm clock to warn you of the time; a notepad for reminders and DOS access, both available from within your other applications; a calculator whenever and wherever you need to run the numbers; an auto-dialer; and printer controls. Use your printer as a typewriter. (Sometimes it's just faster.)

A super alternative to SIDEKICK, with full documentation and on-line help.

(PC-SIG Disk# 405)

Special Requirements: *None.*
Author Registration: *$29.95*

User Comments: *"Desk team is very friendly and useful. I specially like the clock (on- screen) and calculator." "Excellent program. Use it every day. Terrific Sidekick clone." "Top notch."*



PC-DeskTeam (PC-SIG Disk# 405)

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Desktop Publishing See *Word Processor and Text Utilities.*

Destiny A text-adventure game designed to teach Biblical truths. At each crossroad, you must make decisions which affect your destiny. See *Bible Study.*
(PC-SIG Disk# 1327)

Device Any hardware connected to the CPU (central processing unit) of a computer such as disk drives, printers, tape drives, plotters, monitors, or modems.

Device Driver A software program which informs a computer operating system how to communicate with a special device attached to it. These programs are installed by being referenced in the DOS CONFIG.SYS file.

Dewey Decimal System See *Library Record Keeping (Including Dewey Decimal)*.DFStickl A menu-driven calendar/tickler program designed to display certain previously entered memos on certain dates. See *Schedulers, Calendars, To Do Lists, and Ticklers*.
(PC-SIG Disk# 818)

Diagnostics, Hardware See *Utilities, System or Hardware*.

Dialer An electronic phone dialer that keeps a list of names with their phone numbers. See *Communication Programs*.
(PC-SIG Disk# 717)

Dice Games See *Games, Board and Dice*.

Diet Disk and Weight Control Want to lose weight? Use these programs to monitor your loss, track your calories, and plan your diet. See *Health Management*.
(PC-SIG Disk# 1077)

Dieting See *Health Management*.

DIF DIF stands for Data Interchange Format and is one common format for data storage used by many databases and spreadsheets. Even if a program doesn't use DIF format as its normal storage structure, it can often convert to and from DIF format as a means of transferring data to other programs.

Differential Equations and Calculus Visualizes and solves high-level mathematical equations. For students, scientists, and math majors — solve problems and see a graphic representation of the solution. See *Math and Geometry Programs*.
(PC-SIG Disk# 1072)

Director A hard disk navigator, file and directory manager. On-line help to manage 500 files and 500 directories. See *DOS Shells*.
(PC-SIG Disk# 1219)

Directory Assistant Organize name and address information for use in your personalized phone books, mailing labels, and on-line phone number lookups. Track meetings and events. See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk# 748)

Directory, DIR A list of computer files contained on a disk. The term also refers to the place on a disk where the list of files is stored. DIR is the DOS command that displays a disk directory.

Diredit Edit, sort, and rearrange your DOS directories for more efficient computing. See *File Management Utilities*.
(PC-SIG Disk# 908)

Disease Control See *Health Management*.

Disk The actual magnetic wheel and its case on which a computer stores information. There are two main types: floppy disks and hard disks. Floppy disks are a removable media that can be inserted into a disk drive and read by the computer. Floppy disks come in two sizes, 5.25" and 3.5". Storage capacity varies from 360 kilobytes to 1.44 megabytes. A hard disk, also called a fixed disk, hard drive, or winchester drive, is a single unit of disk and disk drive manufactured together. Whereas floppy disks are easily removed and used in another computer, a hard disk is permanently mounted. Hard disks have far greater data storage capacity than floppy drives —usually over 20 megabytes — and are much faster.

Disk Catalogers and Disk Labelers

■ Catalog

Build your disk library catalog simply and easily. CATALOG is a simple program that reads a disk volume label and directory and then formats the directory information into an ASCII file. This file can then be imported into your favorite database manager. It comes with sample file headers for use with PC-File+ to help you in designing your database.

(PC-SIG Disk# 1312)

Special Requirements: *Two floppy drives.*
Author Registration: *$20.00*

■ DBS-Kat DataBase

The purpose of the DBS-KAT software is to maintain a master catalog of all disk filenames that can be inquired against quickly to inform you which disk(s) contains the filename(s) you are looking for.

Simply put, DBS-KAT requires that you physically label all your disks starting with the label 0001 up through 9999 and that you stack your disks sequentially in numeric order. Now insert all of your disks into your disk drive and let DBS-KAT "look" at each one of your diskettes. It records each file's vital information. By doing this, DBS-KAT can always tell you quickly where something is.

Now you can start using your disks to contain critically needed files and put off upgrading the hard drive capacity of your computer. You can start thinking of your disks as being as hard disk subdirectories, for you will be able to find out directory information about any file you have worked on.

(PC-SIG Disk# 537)

Special Requirements: *DOS 3.0 or greater.*
Author Registration: *$27.50*

■ Disk Cataloging Program

After collecting numerous programs on your hard disk or several floppies, finding a particular program can be a tremendous and dreaded problem. DISK CATALOGING PROGRAM is a simple utility designed to handle just that. It creates a catalog of all your files by simply reading the information from your disks as you insert them in your floppy drive. You can add or change the disk label as each disk is read by the program, and catalog over 500 disks in one catalog. You can then view and modify a list of disks. You can search for a filename, and the program tells you all the locations for that file. You can also add individual file descriptions once the disk is cataloged.

(PC-SIG Disk# 1049)

Special Requirements: *None.*
Author Registration: *$19.00*

■ Disk File

DISK FILE is a simple but complete database program for making disk labels rather than using the labels supplied by the disk manufacturer. It supports IBM/Epson/compatible printers. Note: These are ONE-UP gummed labels.

(PC-SIG Disk# 1356)

Special Requirements: *None.*
Author Registration: *$5.00*

■ DiskCat

DISKCAT is a floppy disk cataloging program for hard disk-based systems. Files from each disk are automatically read by the program and put into the catalog. The catalog records the file name, size, and extension. DISKCAT allows you to later add your own description of the file and the file category. Afterwards you may search for a file or print a report by disk, by file name, or by file category. DISKCAT will also print 1-7/16" x 5" sized disk labels, which can be ordered from the author of the program.

DISKCAT is not only a convenient way to keep track of what programs you have and where they are located, but it also allows you to describe each file you own so that you can immediately recall the program's usage.

(PC-SIG Disk# 1320)

Special Requirements: *512K RAM, hard drive, and a printer.*
Author Registration: *$30.00*

■ Diskette Manager

How would you like to catalog your hundreds of shareware disks by volume and program, and be able to locate any file or program in seconds? DISKETTE MANAGER can do the job. Simply slip your disks one-by-one into a drive, press a key, and all the files on it are instantly listed in your catalog.

You can alter volume names, delete or add files, and search and find them instantly. Don't worry about archives. DISKETTE MANAGER reads archived files and records both the archive file name and its contents. You can even add a 40-character description to any record. File sizes are listed along with dates and attributes.

The program includes a 27-page user guide on-disk, and context-sensitive on-line help.

(PC-SIG Disk# 1393)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Diskmaster

Tired of trying to read those scribbled labels on your disks? Print disk labels on 5" x 1-7/16" label stock. This is the ideal size for a floppy disk.

(PC-SIG Disk# 709)

Special Requirements: *None.*
Author Registration: *$10.00*

■ DiskScan

DISKSCAN automatically builds a database of all your floppy disks!

Using DISKSCAN, a comprehensive list of all your files is compiled by a floppy number and a user-defined floppy name. The program automatically does all the work as you feed your disks in one-by-one. When finished, you can browse through a sorted file list on screen, or search the database by name, date, or file attributes. You can also print a catalog of the entire database.

Updates and changes are quick and foolproof. Just insert the disks that have new or changed files into your PC and the program sees what has been altered and makes the necessary additions and deletions to the database.

(PC-SIG Disk# 1286)

Special Requirements: *640K RAM and a hard drive.*
Author Registration: *$15.00*

■ Disk_Tag

DISK_TAG allows you to print custom disk labels, directory listings, and even disk sleeves for your diskettes.

DISK_TAG is a disk label program with the added feature of being able to create sleeves for your disks. When you have those couple of disks that just don't seem to have any sleeves for them, it's nice to be able to make your own.

The program also makes sleeves for 3 1/2" disks. It's not necessary to have sleeves for the smaller disks, but it also leaves you without a place to stick your directory listings. The sleeve the program prints for these disks has been tested in several disk holders and fits fine.

Sleeves or labels printed by DISK_TAG can include a complete listing of all the subdirectories on a disk, or only the root directory, in alphabetical or actual order at your option. DISK_TAG will also print the contents of ARC or ZIP files, if necessary. A line for comments is provided as well, and they are printed in condensed print to allow for longer comments.

(PC-SIG Disk# 1226)

Special Requirements: *Printer.*
Author Registration: *$10.00*

■ FlopCat

FLOPCAT is a menu-driven disk-cataloging system with 23 functions to organize and manage your ever-increasing inventory of floppy disks.

The disk labeling feature alone makes it well worth owning. Print labels with volume name, volume comment line, disk number, free bytes, file names, and extensions. Build and update your catalog of disks. Look through the index or at the directory of a specific disk. Change the volume name, add a comment about the volume, or make specific comments about individual files as you review the contents of each disk. Search through all floppy directories for volume names or wild card search strings. Volumes or files

found are displayed on the screen or printer. A numerical or alphabetical listing of volumes is supported.

Print a disk label in 3.5" or 5.25" formats. This function takes the directory information and neatly prints it on self-adhesive labels. This makes your selection of disks uniformly labeled, numbered, named, and dated, with the free bytes listed as well. Labels used are 4" x 1-7/16" or 2-3/4" x 1-15/16" single-width labels.

(PC-SIG Disk# 959)

Special Requirements: *Two floppy drives.*
Author Registration: *$10.00*

User Comments: *"I really liked the program." "Simple and helpful."*

■ Masterfile Disk Management System

Stop searching through your floppies or hard disk trying to locate specific files.

MASTERFILES can describe the contents of a file without having to use the application that created the file. Determine what each file is and give each file, or group of files, a unique description. (This can be up to 75 characters long.)

Search for your files by name or by description. Print hardcopy of your disk library with these descriptions.

(PC-SIG Disk# 981)

Special Requirements: *Two floppy drives.*
Author Registration: *$20.00*

■ PC-Disk Label

PC-DISK LABEL prints out disk labels for 5-1/4" disks and saves them for later reference or reprinting.

PC-DISK LABEL (PCDL) is a simple program that can help organize a computer user's disk collection and, at the very least, make every disk label legible to the untrained eye. On each label PCDL can print four lines of 22 characters and a fifth line of 74 characters in compressed mode. PCDL can print multiple copies, which is invaluable for those who need to back up their hard disks often or the professional distributing software.

PCDL is easy to use but will only work with IBM-compatible graphic printers or certain Okidata models using Avery 4015 (or equivalent) labels.

(PC-SIG Disk# 1192)

Special Requirements: *Printer*
Author Registration: *$25.00*

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Disk Cataloging Program Compiles a catalog of all your files by simply reading the information from up to 500 disks as you insert them in your floppy drive. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 1049)

Disk Coping See *Copy Utilities.*

Disk Drive The mechanical device used by a computer to read data from and write data to disks.

Disk Drive Alignment See *Utilities, System or Hardware.*

Disk Drive Maintenance See *Utilities, System or Hardware.*

Disk Drive-In Theater Comedy, horror, drama — catalog your video library and print labels to identify your VCR tape collection. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 493)

Disk Duplicator Make multiple floppy copies of all your favorite shareware programs to share with your friends. Written in Forth, the program is faster than the standard DOS DISKCOPY, with more user options. See *Copy Utilities.*
(PC-SIG Disk# 1451)

Disk File Print professional-looking labels on your dot matrix printer to identify all your floppies. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 1356)

Disk Labeler Make disk labels in three different sizes that contain information about your floppy disks. See "Printer Utilities 7" listed under *Printer Utilities*.

Disk Labels See *Disk Catalogers and Disk Labelers*.

Disk Managers See *DOS Shells*.

Disk Navigator Help for finding your away around your hard disk. Eliminates the need to memorize DOS commands and performs several file-handling functions. See *DOS Shells*.
(PC-SIG Disk# 810)

Disk Sign Having a hard time remembering what is on your floppy disks? Add a three line message to your disk and each time a directory of that disk is done, your message is shown. See "Utility Potluck" listed under *File Management Utilities*.

Disk Spool II Allows your printer to print in the background while you go on computing! See *Printer Managers*.
(PC-SIG Disk# 609)

Disk Utilities See *File Management Utilities*.

DiskCat A floppy disk cataloging program for hard disk-based systems. See *Disk Catalogers and Disk Labelers*.
(PC-SIG Disk# 1320)

DiskDupe DISKDUPE was made for folks who need to duplicate lots of programs or disks in various formats. It's versatile and fast! See *Copy Utilities*.
(PC-SIG Disk# 1279)

Diskette Manager Automatically makes an electronic catalog of your disk collection so you can locate any program or file in seconds. Just insert your disks one-by-one. See *Disk Catalogers and Disk Labelers*.
(PC-SIG Disk# 1393)

Diskmaster Print disk labels for your library of floppies. Already set up for standard disk label size. See *Disk Catalogers and Disk Labelers*.
(PC-SIG Disk# 709)

Diskpark A cheap utility to keep you from a costly accident. Park your hard disk drive head in a safety zone so no damage occurs in case of movement. See "Hard Disk Utilities" listed under *Hard Drive Utilities*.

DiskScan Create a catalog of all of your floppy files. Browse the list, sort and print it See *Disk Catalogers and Disk Labelers*.
(PC-SIG Disk# 1286)

Disktool Manage the files on your disks with ease. DISKTOOL gives you the ability to work with individual files or the disk as a whole and lets you perform operations that DOS usually isn't able to provide. See "Hard Disk Management" listed under *Hard Drive Utilities*.

DiskWiz A file manager for floppy and hard disks and a printer setup utility program. An interactive tutorial helps walk you through the basics. See *DOS Shells*.
(PC-SIG Disk# 1257)

Disk_Tag DISK_TAG allows you to print custom disk labels, directory listings, and even disk sleeves for your diskettes. See *Disk Catalogers and Disk Labelers*.
(PC-SIG Disk# 1226)

Dispatching, Vehicle See *Auto/Vehicle Management*.

Diver's Log SCUBA DIVERS — record your dive information for further analysis. Keep track of dive number, location, date, weather and surface conditions, air and water temperature, bottom time, and other criteria. Great for clubs. See *Sports Management*.
(PC-SIG Disk# 1315)

DIVORCE - Animated Strategy for Men CALIFORNIA DIVORCE is designed to educate men on their rights and the procedures they should know about and follow — in California — in case of a divorce. See *Reference Materials (books/articles/information/data)*.
(PC-SIG Disk# 886)

dLITE A pop-up menu-driven database. Enter or update records, sort or delete information. See Database, dBase Utilities.
(PC-SIG Disk# 1204)

Dmail Create mailmerge files for WordPerfect, Microsoft Word and WordStar. Mailing list program for envelopes and labels. See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk# 1172)

DNDBBS Lets people call in to your bulletin board and play Dungeons and Dragons with all the bells and whistles. See *Games, Adventure and Text*.
(PC-SIG Disk# 1131)

Do-It-Yourself Promo Kit Create your own greeting-card-on-a-disk for Christmas and birthdays, or create a custom design. See *Entertainment, General*.
(PC-SIG Disk# 996)

Doc Master DOC MASTER is a set of utilities for printing and viewing on-disk documentation files. See *Word Processor and Text Utilities*.
(PC-SIG Disk# 950)

DOCForm DOCFORM lets you add printing instructions to any text file to specify boldface print, underlined print, margins, double or triple spacing, headers, and footers—which then prints correctly on most printers. See "Utilities Galore" listed under *Printer Utilities*.

DOCMaker/TSRMaker Make a COM file from any ASCII file. Edit, change the color, and then show one screen of your text instantly. See "Armada Utilities" listed under Word Processor and Text Utilities.

Doctor Data Label A mailing list manager that prints up to nine labels across, Rolodex cards, postcards, and envelopes. See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk# 943)

Doctors Office Record Keeping See *Business Specific Systems*.

Dollar-Pro A set of tools for performing many financial calculations: compound interest, loan amounts and gross profit margins. See *Loan Calculators*.
(PC-SIG Disk# 1012)

DOS (Disk Operating System) The collection of software routines which control the basic operations of a computer and make it possible for a user to load and run other programs.

DOS and PC Training and Education

■ DOS-Pro

DOS-PRO is a menu-driven utility that lists the most commonly used DOS commands and is very helpful to novice users. Using the cursor, you select the command you want to use. If you are unfamiliar with the use of that specific DOS command, an on-line help function is ready to explain it to you. DOS-PRO's menu occupies only one screen, and is divided into directory commands, format commands, and other DOS commands.

(PC-SIG Disk# 889)
Special Requirements: *None.*
Author Registration: *$15.00*

■ DOSHelp

If you have ever become frustrated with any of the DOS commands or have had problems finding a command in the DOS manual, then DOSHELP is for you. DOSHELP is a menu from which you choose a DOS command. No more struggling with proper spelling or syntax. This program presents a quick summary of the command along with some examples of how the command is used. For even quicker help on a particular DOS command, you can type the command at the DOS prompt when executing the program.

DOSHELP has been updated to include all the commands through version 3.2 of both MS-DOS and PC-DOS.

Also provided with DOSHELP is a program that prints out a 17-page quick reference guide for all DOS 3.2 commands.

(PC-SIG Disk# 1067)
Special Requirements: *None.*
Author Registration: *$15.00*

■ HelpDOS

A "help system" for learning and using the commands and functions of DOS version 2.0. HELPDOS has menus, reference information, a technical dictionary, and a cross-reference feature which work together to show you what DOS can do and how to use it.

From the main menu, you can select brief or in-depth information on basic and advanced DOS commands, special keyboard keys, batch subcommands, and an overview of the DOS facilities.

The technical dictionary explains frequently used terms with overviews of DOS facilities and personal computers. The dictionary also has additional reference information and usage notes.

When you select a category from the hint menu, HelpDOS will show you a menu of the DOS features relating to that category. The hints function is a unique and powerful aspect of HELPDOS.

(PC-SIG Disk# 686)
Special Requirements: *None.*
Author Registration: *$20.00*
User Comments: *"Everything you wanted to know." "Good trainer. Simple, to the point."*

■ PC-DOS HELP

Lost in the wilds of DOS again? Here's real direction for you — an on-line help function for DOS commands in versions 2.0, 2.1 and PCjr. This is especially informative for the beginner.

How do you get there from here? Just type HELP, followed by the DOS command you are unsure of, and PC-DOS HELP shows you its proper usage and leads you back into the light.

(PC-SIG Disk# 254)
Special Requirements: *None.*
Author Registration: *$15.00*
User Comments: *"Very helpful and convenient. I hardly ever refer to DOS manuals anymore." "Great for beginners. Good for class use in high school."*

■ PC-Learn

Just got your first computer and haven't yet got it out of its box? Or, planning on getting a PC in the near future? PC-LEARN is for you!

PC-LEARN opens the world of the personal computer to first-time users. Basically, a collection of articles on disk, it covers all the essentials every new PC owner should know for getting the most out of their computer. Using PC-LEARN is simple; select a subject from the menu and read it on the screen or print a copy and keep it near your computer for reference.

Subjects that PC-LEARN covers include: DOS for beginners, more advanced DOS, batch files, spreadsheets, hard disk drives, wordprocessors, computer history, display standards, upgrading a PC, software resources, computer words and what they mean, and modems and telecommunications.

(PC-SIG Disk# 1399)
Special Requirements: *None.*
Author Registration: *$12.00*

■ PC-Prompt

PC-PROMPT is a unique, memory-resident DOS help program that automatically provides information for DOS commands as you type them. The F10 function key can display additional help whenever needed. Help screens can also be invoked for EDLIN, DEBUG, BASIC, and Borland's Turbo Pascal editor.

Since PC-PROMPT is memory-resident, it stays loaded in memory until you reboot the PC. It automatically activates at the DOS prompt, and deactivates whenever you execute any DOS command, batch file, or program. Because of this, it is compatible with most software, even with programs which do direct screen memory operations without using DOS. It is even compatible with various other memory-resident programs such as RAM drive emulators, printer spoolers, and even Borland's SideKick.

(PC-SIG Disk# 558)
Special Requirements: *None.*
Author Registration: *10.00*
User Comments: *"Fast. Very well done. Excellent DOS learning tool." "Bought this for a friend, but found it useful myself." "Gives you all the help you need."*

■ QRef

A memory-resident utility that displays a list of all the DOS commands available and a detailed description of them.

Scroll through a display of all the MS/PC-DOS commands. The DOS prompt will always be displayed at the top. You can limit the list by typing in a letter — only the commands that begin with that letter will be displayed. Pressing another letter will limit the list to commands that begin with those two letters. Get a brief summary of the command or a detailed description.

(PC-SIG Disk# 875)
Special Requirements: *None.*
Author Registration: *$49.00*

■ TUTOR.COM

Did they laugh when you sat down at the keyboard? No more! TUTOR.COM is a collection of self-paced tutorials that cover the basics of a first course on computer usage and PC-DOS, the disk operating system.

Learn the basics of PC computing from the general information and history aspect to the nuts and bolts, so to speak, of running and organizing a hard disk. Explore the twists and turns of DOS and learn how to write batch files. Do all of this at your own speed, in the privacy of your own computer, and without an instructor breathing down your neck.

(PC-SIG Disk# 403)
Special Requirements: *None.*
Author Registration: *$15.00*
➤***ASP member.***
User Comments: *"Excellent, step by step learning tool. Learned a lot from this one. Just what I needed." "Good screen designs for interactive learning. Excellent instructional aid for the entire family." "The best program I have seen for teaching computer fundamentals." "The tutorial was pretty good for a beginner. Easy to understand and it covered a lot. A great teaching tool. A must for new users." "Superb. This tutorial built my confidence for learning DOS."*

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DOS Controller A DOS shell for beginners and advanced computer users. See *DOS Shells*.
(PC-SIG Disk# 944)

DOS Extensions A group of programs designed to enhance and extend current DOS commands. See *File Management Utilities*.
(PC-SIG Disk#'s 585, 586)

DOS Shell A DOS shell is a software program that lets users carry out many of the functions of DOS, but in a more manageable environment with help and DOS commands on the screen to guide you. Many software applications are including DOS shells as part of their programs so users can carry out DOS operations without leaving the application. In some instances, the phrase "shell to DOS" can mean that a program will send you to a DOS prompt to perform standard DOS operations while keeping the application running in the background. This "shell to DOS" function is more aptly described as a "DOS window." For programs see *DOS Shells*.

DOS Shells

■ Director

DIRECTOR has two programs that will help you navigate around your hard disk. DL gives you a pictorial view of a directory tree, while DB lets you sort and move your files with uncanny ease.

DL allows directory names of 12 characters, and highlights new directories. It shows you hidden directories and gives you the ability to hide or unhide them and print directories out. Use the arrow keys and page up and page down keys to scroll about a directory. No more remembering directory names and typing commands.

DB allows you to sort your files by filename, file size, modification date, and file extension. Moving around a file list is a snap. Just type the first letter of the file and the highlighted bar moves to it. Mark files for copying and when it's done, DB unmarks them to let you know they have been copied. DB moves files from one directory to another with comparative ease. The function keys are used to delete, rename, and mark files. A special menu lets you print file lists or contents, change attributes, show disk usage, or get program information about DB.

DL handles up to 500 directories; DB handles up to 500 files. Either can be operated individually and with a mouse.

(PC-SIG Disk# 1219)
Special Requirements: *None.*
Author Registration: *$25.00*
➤ ***ASP member.***

■ Disk Navigator

DISK NAVIGATOR takes over for the ordinary DOS prompt on your computer and displays the files on your disk(s) in several display formats; copy, move, and erase files on an individual or group basis.

Individual files can be browsed or renamed. There is a submit facility in which the commands and file names normally typed at the DOS prompt are now typed and automatically passed on to DOS. The benefit: no misspellings!

Context-sensitive help screens and pop-up windows make DISK NAVIGATOR easy to use. The program can show the files from a number of drives/directories on the screen at the same time, giving your computer a "super" disk directory. Scan one disk directory, or the entire disk directory structure.

(PC-SIG Disk# 810)
Special Requirements: *None.*
Author Registration: *$19.00*

■ DiskWiz

DISKWIZ is a file manager for both floppy and hard disks, a printer setup utility program, and other useful things, too.

Using a command station in pop-up windows, you can use simple control keys to perform a variety of functions better than with DOS alone, and a whole lot faster and easier.

DISKWIZ displays file names (hidden and subdirectories too!) on any disk in alphabetical order, as well as disk size, free space, and number of entries; allows you to see any subdirectory or parent (root) directory with a single keypress; and provides easy file selection by highlighting with cursor keys — no typing of names!

You may select up to 100 files matching a pattern (i.e., ".BAK") to work on at a time; view any file's contents on screen, including program and hidden files; display text files on screen with or without line numbers; make WordStar files legible; print text files with or without line numbers; condense printing with Epson type dot matrix printers; and find out word count, printable character count, and line count for text files.

DISKWIZ also lets you send your printer any special codes for print style changes, special characters, line feeds, form feeds, reset, etc.; typewriter emulation with printer for those quickie jobs like envelopes; switch between two printers (LPT1 and LPT2) and show which one is active; display all 256 PC/ASCII characters; display all 256 screen display colors/attributes; change cursor size (also restore it, if lost); and a screen saver blanks monitor during non-use.

A marvelous feature of the program is an interactive tutorial demonstration that leads you through the use of the program with lively sound effects and graphics.

(PC-SIG Disk# 1257)

Special Requirements: *None.*
Author Registration: *$25.00*

■ DOS Controller

A DOS shell for beginners and advanced computer users.

DOS CONTROLLER can execute DOS commands and files from menus you create, and acts as a shell to DOS. It helps beginning users become acquainted with the computer, and helps advanced users shift between programs more easily. DOS CONTROLLER lets you create your own program menu for your applications, and already has a menu of DOS commands for automatic execution.

(PC-SIG Disk# 944)

Special Requirements: *Hard drive.*
Author Registration: *$35.00*

■ DOSamatic

DOSAMATIC is a task-switching utility that lets you load several programs and transfer between them with simple keystroke commands.

It has a menu that lists available drives, directories, and files on the current drive. Commands available include VIEW, SORT, RENAME, EDIT, PRINT, DEBUG, COPY, and DELETE. Programs can be run from memory. Now you can do two things at once.

(PC-SIG Disk# 498)

Special Requirements: *None.*
Author Registration: *$39.00*

■ Edicom-12

No more memorizing of DOS commands, syntax, or keyboard codes. EDICOM-12 converts DOS to a menu-driven system that's easy to use and more productive. Typing commands are replaced by moving the cursor and pressing enter.

(PC-SIG Disk# 1037)

Special Requirements: *360K RAM.*
Author Registration: *None.*

■ File Friend

FILEFRIEND is a memory-resident file manager which can display files from up to 10 disks and subdirectories; add or remove files from the listed directory; sort by name, extension, date, time, size, or path; scroll through the directory or tag files to copy, rename, delete, type, dump, or change file attributes.

All commands are quickly executed by the 10 function keys, and the bottom line of the screen will display the options available to you. The top line of the screen shows the free disk space, and you can view the date/time and change it.

Edit your DOS commands as you enter them and keep your five previous commands in a buffer, thus allowing you to go back and execute a command without having to enter it again. A log of your 20 last commands are shown on the right part of the screen.

(PC-SIG Disk# 871)

Special Requirements: *None.*

Author Registration: *$34.95*

User Comments: *"Like it!"*

■ File-Man

SUPERDIR210 is a menu-driven utility program that aids in managing disk files. Directory and file names are displayed in sorted order with file names sorted by name, extension, date, or size. Single files or file groups may be quickly marked and acted upon. The actions include copy, move, spawn, append, erase, rename, change attribute status, display, print, and locate. Features include macro execution, color display, directory tree, disk labels, and a utility option that allows extensive customization of program parameters.

SUPERDIR210 runs up to 18 user-entered macros. The program supports a PC mouse and offers a manual of over 100 pages.

(PC-SIG Disk# 1199)

Special Requirements: *None.*

Author Registration: *$25.00*

■ FLIST/PC

FLIST/PC is a selection menu for manipulating your files in a more efficient manner.

Copy, move, rename, delete, edit, and execute a file by simply indicating the desired action. Multiple actions can be executed with a function key. FLIST/PC can be used with your own word processor or text editor without exiting FLIST/PC. The disk file directory can be sorted by filename, extension, size, or date. You can easily scroll through a directory, display the tree structure of all subdirectories on the current disk drive, and select new paths and directories to be displayed.

(PC-SIG Disk# 933)

Special Requirements: *None.*

Author Registration: *$15.00*

User Comments: *"Simple, and easy to use. Adequate documentation."*

■ IDCshell/NARC

IDCSHELL and NARC take you where no man has gone before — the nether lands of archived files. First, you are provided with an understanding of the world of packing, squeezing, crunching, and squashing. Second, you are given the tools to view, edit, delete, move, print, and make changes without unarchiving.

The two programs operate in tandem — IDCSHELL provides the environment and NARC, the key to archived files. NARC is a menu-driven de-archive facility that allows you to move easily from file to file. Operated from a mouse or keyboard, NARC is called by IDCSHELL, a DOS-like operating shell. IDCSHELL can also call your editor to allow you to alter files at will.

The next time someone packs files to one-tenth of their original size, you can shrug your shoulders and treat the microfiles as if they were old-fashioned ASCII text. Documentation is extensive.

(PC-SIG Disk# 1205)

Special Requirements: *None.*

Author Registration: *$20.00*

■ Job Organization and Backup System

Power users take note! JOB ORGANIZATION AND BACKUP SYSTEM (JOBS) is a powerful broad-based utility package for organizing and operating your system. Simple enough for beginners, JOBS is menu-driven and best described as a computer "housekeeper," maintaining and organizing your system with an economy of keystrokes.

Housekeeping tasks handled by JOBS include execution of application programs, backup or archiving of data from applications programs, installation and removal of programs and utilities, ability to customize frequently performed operations, DOS shell functions, and a host of miscellaneous functions such as searching, sorting, comparing, backup/restore, etc. An automatic installation sequence guides the user to proper program setup procedures, and there are over 50 pages of thorough documentation.

(PC-SIG Disk# 1093)

Special Requirements: *Hard disk.*
Author Registration: *$29.00*

■ P-Cem

P-CEM is a program that displays the current directory and allows you to execute several DOS commands at the touch of a key. It simplifies complicated file and directory usage that would be more complicated using just the DOS command line.

With P-CEM you can use the cursor pad to select a file from the directory, and press a single key to copy, delete, rename, execute, view, print, or wipe that file. You may also encrypt and decrypt files, and change file attributes. P-CEM can switch between directories, and allows you to create and delete directories. For other operations you may temporarily shell to DOS, and immediately return to the program.

Additional utilities are included. COLOR is a program that allows you to change the border color on a CGA moniter, and CURSOR will allow you to change the size of the cursor so that it can be located on the screen more easily. DISKINFO will state what free space is available on a disk, and MEMORY will display your total computer memory and currently available memory. READSECT will allow you to view any disk sector. (This is useful for looking at the "raw" data of a program or finding a lost file.) SYSINFO will display general system information of your computer configuration, and REBOOT will reboot your computer (same as Ctrl-Alt-Del). REBOOT is a useful program if it becomes necessary to reboot the computer in a batch file.

(PC-SIG Disk# 1464)

Special Requirements: *None.*
Author Registration: *$9.95*

■ Point & Shoot

The POINT & SHOOT Hard Disk Manager addresses two of the most important needs of hard disk users: Program execution and file/directory management.

POINT & SHOOT includes all the standard menu, file, and directory commands with a split-screen file list and directory tree. The program includes DOS access, floppy disk formatting, multiple hard drive support, mouse support, file and subdirectory undelete, DOS 4.0 support, passwords and time logging, text search, and much more.

(PC-SIG Disk# 930)

Special Requirements: *Hard drive.*
Author Registration: *$35.00*
➤***ASP Member.***

■ Roam

ROAM is a DOS shell, an easy-to-use interface that insulates you from the complexities of DOS. It makes it easier to enter commands and manage files. ROAM helps organize and control a hard disk and makes it possible for you customize its organization to fit individual user needs.

Instead of displaying confusing information (e.g. cluster size and other technobabble), ROAM breaks down the process into two distinct modes, depending on what you are doing. The first is an enhanced command line, similar to, but easier to use than, the DOS command line, and the second is a directory/file screen where you can easily navigate through disk directories, files, and drives.

ROAM grows with you as you develop your computer skills. While an experienced programmer can make use of its more advanced capabilities, a newcomer immediately gains a beneficial, easy-to-use tool.

(PC-SIG Disk# 1151)

Special Requirements: *None.*
Author Registration: *$44.95*

■ Scout

SCOUT is a memory-resident disk file manager you can customize to your liking. Define your paths and your favorite applications and change your options at any time.

Any program can be executed from SCOUT by scrolling through the directory and pressing the appropriate key. Tag files or scroll through the directory to copy, move, alter, delete, or rename the files. SCOUT can search for a particular file, and can change the file's date and time. Create a directory, create a volume label, format, or display disk memory information. Read text files, and even display a directory listing of an ARC file.

Special features include a displayable calendar and an ASCII character table. SCOUT also displays RAM memory usage, showing how much memory each memory-resident program is currently using. When exiting from SCOUT, you have the option of removing it from memory.

(PC-SIG Disk# 895)

Special Requirements: *None.*
Author Registration: *$30.00*

■ ShortCut

SHORTCUT is a memory-resident manager that makes DOS easier to use.

The program displays a good deal of information about your directories, system status and configuration, disk and memory status, DOS, current date and time, and the main commands available to you.

With SHORTCUT you can run, copy, move, type, print, erase, search, or rename a file. You can also format and copy your disks, and edit a file with your favorite wordprocessor from this program.

The program has simple menus, with optional on-line help. Once you exit to DOS, it will remain in memory until you need it again.

(PC-SIG Disk# 840)

Special Requirements: *None.*
Author Registration: *$30.00*
User Comments: *"A real nice DOS shell and easy to use. Very good with commercial programs."*

■ Still River Shell

The STILL RIVER SHELL provides an intuitive interface with your system that MS/PC-DOS has never provided the user.

Typical DOS functions of execute, find, copy, move, delete, or list are completed with significantly fewer keystrokes while still providing access to all DOS commands. It gives you a more comfortable, informative operating environment than DOS alone, and the friendly, visible nature of the display can actually help the new user to better understand the operating system.

Get things done with greater speed and precision. After all, isn't that the point of computing?

(PC-SIG Disk# 481)

Special Requirements: *None.*
Author Registration: *$25.00 to $59.00.*
User Comments: *"I use it all the time — very helpful for a novice like me." "Good to go down the line and clean out unnecessasry unwanted files."*

■ StupenDOS

STUPENDOS is a powerful disk management utility that goes beyond just displaying and manipulating files in a user friendly manner. In addition to sorted file lists, tree directory display, file tagging, disk and memory information, STUPENDOS has a mouse interface, a file-find function, a file-display filter, and a file-move utility to move files from one directory to another.

But the more subtle features are what sets STUPENDOS apart from other disk managers. When a batch copy of files stops because of lack of disk space, STUPENDOS can continue and copy smaller files in the batch list that might fit. STUPENDOS has a "view contents" function that can be customized to call any program (a favorite editor or wordprocessor, etc.) in place of the TYPE function to view the file.

(PC-SIG Disk# 1336)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Treeview

Getting lost in your hard disk forest of files? Climb a tree, with TREEVIEW, to easily find your way about and make file operations a breeze.

Called up by a hot key, TREEVIEW displays disk and directory contents in up to six windows. You can perform operations, such as deleting, on several files in several directories at once and select files by time/date or extension. A simple tree display graphically shows your directory structure, allowing you to zip about your files in ways you never thought possible. On-line help is available from anywhere in the program, and an on-disk user guide provides in-depth instruction.

A "show-all" and "show-sub" display lets you access all files on the current disk as if they were in one directory. A file viewing function displays files as ASCII text or hexadecimal format to permit use of listing and editing programs. Offering full mouse support, TREEVIEW exploits DOS command line macros to let users access complete file and directory pathnames using just one or two characters. Screen colors are user-selectable.

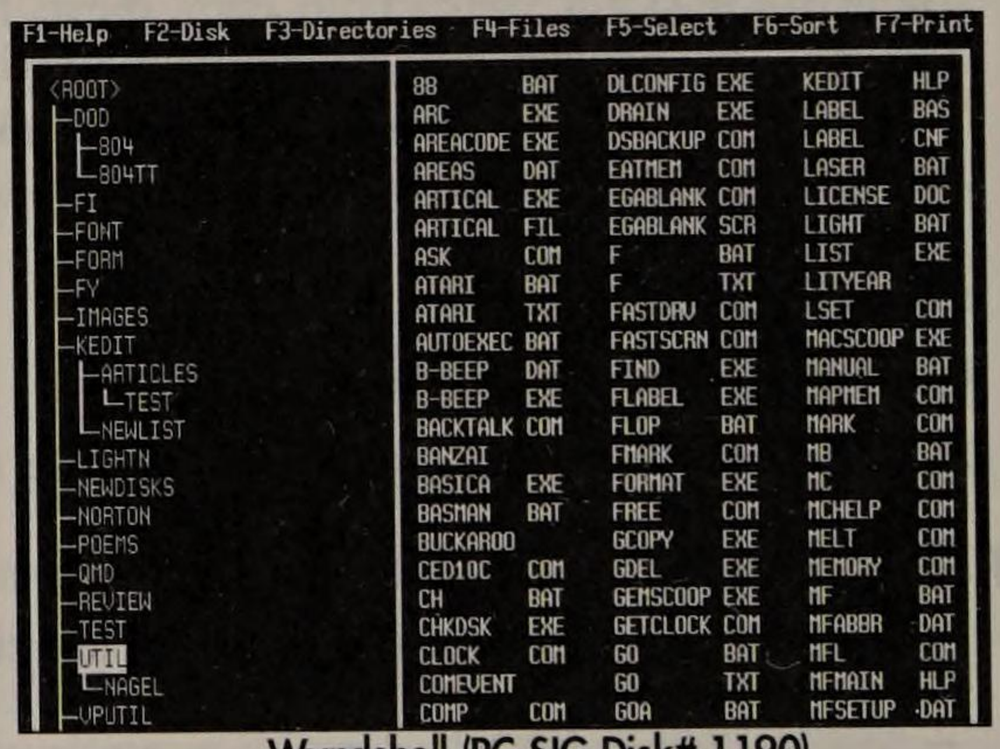
(PC-SIG Disk# 1243)

Special Requirements: *None.*
Author Registration: *$39.95*

■ Wyndshell

WYNDSHELL is a friendly and complete disk manager for users who fear the DOS prompt world. In addition to superior disk management, this menu-driven program can call programs or user-created macro commands (in lieu of batch files) with one keystroke, or mouse click, superseding the need to ever use the standard DOS prompt.

The WYND-DOS section of the WYNDSHELL program graphically displays disk and directory information. Using pull-down menus you can execute all DOS file (COPY, DELETE, etc.) and directory (CD, MD, etc.) commands. But WYND-DOS doesn't stop here: there are commands to move files, re-sort the directory listing, print disk info, and more. A superior feature is the ability to "tag" multiple files for a file operation such as copy or delete, saving many repeated steps. All of these features can be run with minimal keyboard strokes, or even more easily with a mouse.



Wyndshell (PC-SIG Disk# 1190)

The WYNDSHELL menu can be customized to directly call selected programs or execute a series of commands. A two-level menu is supported, letting you group programs by application. If you desire, WYNDSHELL pauses and prompts for parameters that the program may require. This is a feature many similar menu systems have left out.

All of WYNDSHELL's commands and prompts are straightforward and easy to use, and there is on-line help throughout the program.

WYNDSHELL adds the ability to include passwords for any menu item, the ability to select screen colors, and includes a screen-blanking routine when at the main menu.

(PC-SIG Disk# 1190)

Special Requirements: *320K RAM and DOS 3.0 or higher.*
Author Registration: *$30.00*

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DOS Utilities See *File Management Utilities.*

DOS Utilities 16 Check disk for rotation speed, print compressed directory for disk sleeve, sort files by date and other ways, HIDE a file, copy only new files to disk, MOVE files, and more! See *File Management Utilities.*
(PC-SIG Disk# 319)

DOS-Pro DOS-PRO is a menu-driven help utility that lists the most commonly used DOS commands and is very helpful to novice users. See *DOS and PC Training and Education.*
(PC-SIG Disk# 889)

DOSamatic An acclaimed menu-driven task-switching utility to help manage your system. Load several programs and transfer between them with simple keystroke commands. See *DOS Shells.*
(PC-SIG Disk# 498)

DOSHelp Can't remember the right DOS command? Here's on-line help whenever you need it. See *DOS and PC Training and Education.*
(PC-SIG Disk# 1067)

Dot-matrix printer These fast, low-cost impact printers produce images by firing small, round pins against an inked ribbon to produce an image on paper. The impact of each pin produces a part of the image. Different pin patterns create different characters or images.

Double Bogie Killer Take a few strokes off your next golf game! Keeps track of scores and other significant data of past games for up to file players. See *Sports Management.*
(PC-SIG Disk# 984)

Doug's Programming Language (DPL) A macro Assembly programming language which uses high level syntax for Instructions. Extensive documentation on-disk. See *Programming, Tools.*
(PC-SIG Disk# 1262)

Dovetail III DOVETAIL III merges a form letter with addresses from a mailing list and even addresses envelopes. It works with mailing lists and form letters written with WordStar, Easywriter or PerfectWriter. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 877)

Download Fonts — Dot Matrix See *Printer Managers.*

Download Fonts — Laser See *Printer Utilities, Laser.*

Download, Upload files To download is to take files from another remote computer such as a BBS. To upload files is to send files to another remote computer. For programs see *Communication Programs.*

DRACULA In London A blood-curdling adventure game with great graphics. You and five other vampire-hunters are looking for Dracula down the foggy, sinister streets of London. Bring your own stake! See *Games, Adventure and Text.*
(PC-SIG Disk# 1220)

Draw Poker See *Games, Cards.*

Drawing See *CAD (Computer Aided Design) and Designing.*

Drawplus A Graphics/Drawing program written especially for the PC and PCjr. Pull-down menus and a joystick control the various drawing functions. Source code is included. See *Paint and Drawing Programs.*
(PC-SIG Disk# 633)

Drink Preparation See *Food and Drink Preparation.*

Drivechk & Align Just about anything you ever wanted or needed to know about disk drive diagnosis and adjustment. See *Utilities, System or Hardware*.
(PC-SIG Disk# 1087)

Droege A manual CAD system created for designing printed circuit board photomasters. See *CAD (Computer Aided Design) and Designing*.
(PC-SIG Disk#'s 904, 905)

dTime-Keeper A menu-driven time and billing manager for professional services. Supports up to 99 rates, billing by the minute, automatic billing of flat rates, and maintenance of audit trails. See *Accounting, Time-Billing Management*.
(PC-SIG Disk#'s 909, 910)

DUNGEON Magic is at your fingertips as you fight your way through the underground monster maze to find your treasure. Like HACK but with function keys for spells. Uses simple graphics to represent maze. See *Games, Adventure and Text*.
(PC-SIG Disk# 1437)

Dungeon and Dragons See *Games, Adventure and Text*.

Dungeons of the Necromancer's Domain An update of the classic DND, this version has five completely new dungeons with new possibilities. It's time to revisit the castle. See *Games, Adventure and Text*.
(PC-SIG Disk# 567)

Dvorak Keyboard Layout See *Utilities, System or Hardware*.

E

E88 Text Editor The E88 TEXT EDITOR (E88) is a powerful, fully functional text and programming editor completely written in Assembly language — compact and extremely fast. See *Word Processors, Text Editors, and Outliners*.
(PC-SIG Disk# 1102)

Eamon A collection of fantasy role-playing text adventures. Treasure and glory await you in the treacherous ICE CAVES. See *Games, Adventure and Text*.
(PC-SIG Disk#'s 296, 297, 1038, 1039)

Easy Access Hard disk menu system that gives you usage logging, system security, a screen saver, a calendar, and reminder functions. See *Menu Programs*.
(PC-SIG Disk# 1409)

Easy Project A project management system for planning and tracking any type of major undertaking. Many powerful features such as Gantt charts, accrued valuation, time phasing, and critical path analysis. See *Project Management*.
(PC-SIG Disk# 1082)

Easy-Plan EASY-PLAN stores names, addresses, telephone numbers, and comments to create mailing lists of customers and suppliers for your business or for personal mailing labels. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 896)

EasyDOS EASYDOS provides an easy-to-use menu for performing simple DOS operations. You do not have to know the complicated DOS syntax or command line parameters. See *Menu Programs.*
(PC-SIG Disk# 1176)

EasyMenu A menu maker with some very nice features such as keystroke recording, mouse support, and batch file compatibility. See *Menu Programs.*
(PC-SIG Disk#'s 738, 739, 740)

Economic Research's Cost of Living Here are national salary averages for over 4000 jobs, and 3000 communities. Are you being paid what you are worth? If you move to another city, how far will your paycheck stretch? Find out! See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1401)

Eddy Edit the directory elements "filename, date, time" and file attributes. Copy and move a file, view the contents and patch the data. Review changes and write to disk. Also has an undo function. See *File Management Utilities.*
(PC-SIG Disk# 1026)

Edicom-12 Run your computer from this DOS shell. Say Good-bye to DOS commands and syntax. See DOS Shells.
(PC-SIG Disk# 1037)

Edna's Cook Book For the systematic compilation and printing of recipes. Helpful in the preparation of a cookbook, your own or for publication. See *Food and Drink Preparation.*
(PC-SIG Disk# 1229)

EDRAW Draw schematics, block diagrams, flowcharts — even printed circuit boards. Designed for technical use by engineers, teachers, and students. See *CAD (Computer Aided Design) and Designing.*
(PC-SIG Disk# 828)

Education, Accounting See *Accounting, Education.*

Education, Assembly Language See *Programming, Assembly.*

Education, BASIC Language See *Programming, BASIC.*

Education, C Language See *Programming, C.*

Education, Forth Language See *Programming, Forth.*

Education, FORTRAN See Programming, FORTRAN.

Education, Mathematics See *Math and Geometry Programs.*

Education, Modula-2 Language See *Programming, Modula-2.*

Education, Pascal Language See *Programming, Pascal.*

Education, Typing See *Typing, Education.*

Education, Wordprocessing See *Wordprocessors, Education.*

EGA (Enhanced Graphics Adaptor) A graphics hardware standard that displays in more colors and with higher resolution than the older CGA standard. An EGA monitor is required to take advantage of the EGA card. Some users found the first color standard, CGA, difficult to view for long periods of time because of the low resolution of letters and numbers. The higher resolution of the EGA standard solves this problem for many and makes more detailed pictures possible.

EGA Screen Save A screen-blanking routine that shuts your EGA screen off after three minutes of keyboard inactivity. Prolong the life of your screen by preventing "image burn-in." See *Utilities, System or Hardware.*
(PC-SIG Disk# 789)

EGA Trek You are in command of the Constitution Class Heavy Cruiser U.S.S. ENTERPRISE, NCC-1701. Your mission as commander of the Enterprise is to secure a 64 quadrant sector of the galaxy. Good luck, Captain! See *Games, Arcade.*
(PC-SIG Disk# 1221)

EGAblank EGABLANK blanks your EGA screen after two minutes of inactivity. See *Utilities, System or Hardware.*
(PC-SIG Disk# 978)

Electron Calculates Ohm's Law, parallel resistors, resonant frequencies, decibels, resistance for ammeters, true power, watts, ohms, RPM, and frequency. See *Chemistry and Physics.*
(PC-SIG Disk# 1045)

Electronic Bulletin Boards Systems See *Bulletin Board Systems (BBS).*

Electronic Mail A system that allows one person to type a document at a computer terminal and send it over telephone lines to a person at another terminal where it is stored until read. Also referred to as E-mail. For programs see *Bulletin Board Systems (BBS).*

Electronics See *Chemistry and Physics.*

Elementary C C language routines to help you learn the language and provide a shortcut library for more experienced users. See *Programming, C.*
(PC-SIG Disk# 429)

Elfring DeskJet Softfont Package HP DeskJet owners rejoice! Available now — a complete package of 25 different soft fonts and a fast download program written especially for the HP DeskJet. See *Printer Utilities, Laser.*
(PC-SIG Disk# 1462)

Employee Management See *Personnel Management.*

Employee Management System Personnel Managers — evaluate new and current suitability and motivation of employees and prospective employees. Define requirements for a particular position. See *Personnel Management.*
(PC-SIG Disk# 660)

Enable Reader Professional Speech System A speech synthesizer system designed to allow access by the visually impaired to most computer software. Supports seven different synthesizers. See *Visually Impaired, Programs.*
(PC-SIG Disk#'s 674, 675, 676, 677)

Encode/Decode Send spreadsheets, programs, source code, wordprocessor files — any files — between MS-DOS computers with utter confidence that your data is still secure. Control access to your files. See *Security — File, Disk, or System.*
(PC-SIG Disk# 482)

Encryption To convert information into a code so others cannot read it. For programs see *Security — File, Disk, or System.*

Engineering

■ CC-Surveyor

CC-SURVEYOR is designed for civil engineers and land surveyors as an aid for Generic CADD.

Create points, point numbers, and lines from maps of record or legal descriptions. Then Generic CADD quickly loads the boundary, letting you get started with the building layout or lot layout within CADD. It includes traverse, inverse, sideshot, bearing, and distance intersection routines, area, inscribe curve, rotate/translate scale, and other point-manipulation utilities. Points can also be transferred back to CC-SURVEYOR from Generic CADD.

(PC-SIG Disk#'s 926, 1029)

Special Requirements: *324K RAM, CGA or EGA, Epson compatible printer, and Generic CADD.*
Author Registration: *$150.00*

■ CoGo

COGOWARE is a coordinate geometry surveying program for plat designers. Calculate coordinates of each point in the plane of the survey and of each point calculated by the plat designer. Each pair of coordinates is assigned a point number by the designer as the calculations progress. These designated coordinates are saved in batches of 100 points to a file. Any designated point can be recalled, and the survey extended as the design progresses. All calculations are carried out in double precision.

(PC-SIG Disk# 1013)

Special Requirements: *CGA.*
Author Registration: *$10.00*

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Entertainment, General

■ Crossword Creator

CROSSWORD CREATOR can be used by anyone who enjoys designing or solving crossword puzzles. It provides the tools you need to lay out a puzzle on the computer's screen, define clues for each word, save your design on disk, and produce professional-looking printouts of your crosswords.

Enhancements include: a 50-page manual, an installation utility, a configuration file, support for all types of printers (including lasers), and an automatic word placement feature that will actually build a puzzle for you, using words you enter.

(PC-SIG Disk#'s 819, 1142)

Special Requirements: *Printer.*
Author Registration: *$25.00*
➤ ***ASP member.***

User Comments: *"Really easy to use. I created a number of unique puzzles for my friends." "I created several crossword puzzles using clues that were of interest to specific group and individuals. Proved quite educational and entertaining." "Good helping students to learn vocabulary." "Good documentation. My twelve year old daughter especially enjoys this one."*

■ Do-It-Yourself Promo Kit

Why send a piece of cardboard or paper to express your feelings, when you can send a disk that plays music? What a birthday surprise!

These programs are a perfect replacement for traditional birthday and Christmas cards — they play music and greet the recipient. With the included editor, you can write your own cards for any occasion. They run on either a monochrome or color system, without the need for a graphics card.

Add that personal touch that people never forget!

(PC-SIG Disk# 996)

Special Requirements: *Two floppy drives and a printer.*
Author Registration: *$24.95*

■ G.I.F.T.S.

Having that same old trouble coming up with a gift for Aunt Gertrude year after year? How about Mom? Given her all the gifts you could think of already?

G.I.F.T.S. is a database designed to give you gift ideas for people. From a menu you select two key words for the price range of the present, the category of the item, and the type of person it's for. Gifts are then selected out of the database, which may be viewed on the screen or printed on the printer. Each listing will display the title of the gift, the approximate cost, the supplier, a description, and a comment.

Got that charge card ready?

(PC-SIG Disk# 876)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Garden City Software Collection #1

Psychologists tell us that watching fish can reduce stress. They don't understand what a $150.00 fish, belly-up in the tank, can do to your blood pressure. Instead, try electronic fish. Not a game, FISHTANK is a soothing alternative to pet care and maintenance. With proper voltage, your fish will live forever. You get all the accessories complete with a snail and eel.

History buffs will love HIST-PAL, a simple timeline database that gives the years of birth and death, the occupations, and noted quotes ("Let them eat cake!") of over five hundred famous people. With a wordprocessor you can add to the time line. Want to be among the "Rich and Famous"? Just drop yourself into this electronic "Who's Who" to impress your friends and enemies alike.

(PC-SIG Disk# 1421)

Special Requirements: *CGA.*
Author Registration: *$2.00*

■ Garden City Software Collection #2

An even half-dozen programs that run the scale from mortgages to metronomes.

HYPNO brings onto screen colorful hypnotic images to induce relaxation or enhance meditation. Provides changing circles, spirals a swinging watch, etc. Of particular note is a visual that is combined with affirmations (positive statements) to help you change negative mental images or bad habits.

MORTGAGE is a neat package that will compute your proposed mortgage payments and homeowner's costs by considering things such as insurance, taxes, and maintenance dues.

TIMEZONE tells you what time it is anywhere in the world, listing by country, area of country, and cities. Useful when communicating with faraway places.

The next three are for musicians. PC-SOUND achieves the unbelievable: your computer can sound like a tuba, saxophone, fife or other instruments. Or, if you prefer, you get white or pink noise or the sound of a siren or ray gun or clock ticking or waves beating on the shore, and lots more. Depending on your PC's speaker, the effects range from entrancing to distracting.

How would you like to tune a guitar, violin, banjo, mandolin, and other musical instruments with the help of your computer? Or, produce mathematically precise tones. Use TUNER.

METRON is an electronic metronome for musicians to set the beat.

(PC-SIG Disk# 1422)

Special Requirements: *None.*
Author Registration: *$2.00*

■ Get Lucky!

This disk has a multi-faceted adult-oriented game, featuring trivia (for one or two players), adult trivia, adult poker, and a poker machine like those in Las Vegas. The questions covered by the trivia section include entertainment, sports, general knowledge, science, and sex. Penalties for missing a question or losing a hand in either of the "adult" games include removing an article of clothing, taking a drink, performing a task, telling a joke, or trying to say a tongue twister — all of which can be considered optional... or mandatory, depending upon the players.

(PC-SIG Disk# 711)

Special Requirements: *CGA.*
Author Registration: *$24.99*

➤***ASP member.***

User Comments: *"An interesting assortment of questions." "Found the poker machine very similar to the Las Vegas machines. Both my wife and I found it very enjoyable."*

■ *Greetingware for Christmas and Birthdays*

This is one greeting card that won't get thrown in a shoebox after the occasion is over. Just think of the fun your friends and relatives will have when they receive a customized birthday or Christmas card-on-a-disk from you!

GREETINGWARE's CHRISTMAS MEDLEY and BIRTHDAY MEDLEY will let you send a musical and colorful electronic greeting card. The Christmas card entertains you with a Christmas tree with flashing lights, while the birthday card greets you with a cake and candles.

Each card plays six songs, which your family and friends can sing along with. The program will put the words on the screen and then...just follow the bouncing ball.

(PC-SIG Disk# 839)

Special Requirements: *None.*
Author Registration: *$14.95*

■ *It's All In The Baby's Name*

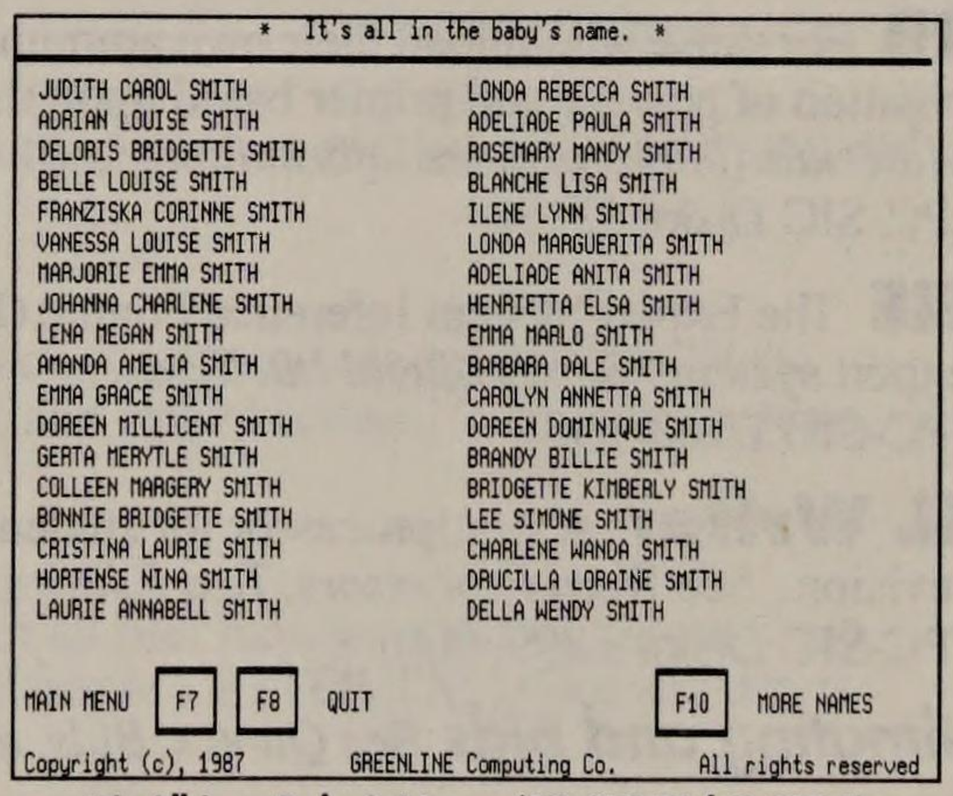
Planning to have a baby? Then you will certainly want this program which helps you choose the right name to insure your offspring's future success! Great gift for your friends who are about to become parents!

Tell the computer the baby's last name and it will provide you with an almost endless list of combinations of first and middle names that you can view or print. Names are drawn from a large variety of ethnic backgrounds and sources and provide a great starting point for naming the next generation. Some combinations can be quite startling, some quite plain, and some will be recognized as relatives.

Another option allows Mom and Dad to scan prospective first names and choose likely candidates. Your trusty computer then mixes and matches them and lists them out with your last name for comparison shopping. The result allows the proud parents-to-be to mull over the combinations which look and sound best and try to pick something even the child will like.

(PC-SIG Disk# 1214)

Special Requirements: *None.*
Author Registration: *$12.00*



It's All in a Baby's Name (PC-SIG Disk# 1214)

■ *Origami*

ORIGAMI is an introduction to the ancient Eastern art of paper folding. This tutorial begins with the basics — the main starting folds — and proceeds to demonstrate how to create many traditional and modern paper sculptures. Step-by-step colorful graphic instructions walk you through the construction of graceful and fanciful creatures.

(PC-SIG Disk# 408)

Special Requirements: *None.*
Author Registration: *$19.95*

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Entrap Trap the computer's game pieces before it traps you. Easier said than done. See "Follies" listed under *Games, Arcade.*

Envelope Preparation See *Word Processor and Text Utilities.*

ENVPRN ENVPRN turns your computer into an electric typewriter for quickly dashing off addresses on an envelope in a variety of fonts. See "Utilities Galore" listed under *Printer Utilities*.

EPISTAT A library of statistical analysis tools for databases with less than 28 variables. Perform many common statistical functions and print the results. See *Math and Geometry Programs*.
(PC-SIG Disk# 88)

Epset A collection of batch commands to set the print parameters on the Epson MX, LX, and FX series printers and compatibles. See *Printer Managers*.
(PC-SIG Disk# 1370)

EPSET Don't hassle with escape codes or Basic commands anymore, use EPSET's batch commands to set the printer parameters on your Epson MX, LX, or FX. See "Garc's Utilities" listed under *Printer Managers*.

Epson Printers See *Printer Managers or Printer Utilities*.

EPSTAR Change the set-up of your Epson, IBM, or Star printer with this menu-driven easy-to-use printer utility. See "Printer Utilities #4" listed under *Printer Utilities*.

Equator A novel educational system for teaching math, science, and finance. The non-drill approach emphasizes exploration and experimentation. See *Math and Geometry Programs*.
(PC-SIG Disk# 249)

Erase (Nonrecoverable) See *Security — File, Disk, or System*.

ERB For those who reload their own ammunition. ERB can help the rifleman determine the proper combination of powder and primer based upon the desired ballistic performance of the bullet. See *Reference Materials (books/articles/information/data)*.
(PC-SIG Disk# 1315)

ESIE The Expert System Inference Engine (ESIE) is an artificial intelligence shell to help you to build an expert system. See *Artificial Intelligence*.
(PC-SIG Disk# 398)

ESL Writer A wordprocessor for students and writers with help for proper punctuation, grammar, and revision. See *Word Processors, Text Editors, and Outliners*.
(PC-SIG Disk#'s 899, 900)

Estimating and Bids See *Quotes, Bids, and Estimating*.

Ethics, Business See *Reference Materials (books/articles/information/data)*.

EthInves Are you supporting the good guys or the baddies? Use ETHINVES, a database about ethical investment. Lists defense, nuclear, SDI contractors and others, with phone numbers and lists of bulletin boards. See *Reference Materials (books/articles/information/data)*.
(PC-SIG Disk# 1307)

Every Other Page Paginate your text files to print on the front and back of pages while maintaining the proper sequence. Save paper, your documents will fit into half the space, and your reports will look more professional. See *Word Processor and Text Utilities*.
(PC-SIG Disk# 1428)

Exacct Know your financial status at all times. Track your checking, savings, credit accounts, business expenses and income, and whatever else you have going financially. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 1306)

EXE, COM file extensions These are filename extensions which signify executable programs. A program is executed by typing its filename (without the extension) at a DOS prompt and pressing ENTER.

Expansion slot (card slot) The slots are spaces within a computer's electronic circuit into which electronic circuit boards or "cards" can be quickly plugged. Expansion slots make it easy for people who want to add a modem, disk drive or other devices to their computer.

Expert system An expert system is a computer program that can draw rational conclusions about a particular problem or set of circumstances based on supplied information. Expert systems can be created for everything from troubleshooting machines, to recommending insurance policies, to diagnosing diseases. The system has a method for the user to interface with the program, such as a menu or a series of questions. A database — sometimes called a knowledge base — provides facts about the topic under consideration. An inference engine compares the "answers" or information provided by the user with the database and comes up with conclusions about the case. For programs see *Artificial Intelligence*.

Export Process of moving a data file from the format of one application to the format of another so the file can be processed by the second program.

Exposure Calculations, Photography See *Photography*.

ExpressCalc A spreadsheet for business forecasts with many powerful functions such as financial and statistical math, as well as file import, graphing, and reports. See *Spreadsheets*.
(PC-SIG Disk#'s 524, 525)

ExpressCheck A checkbook manager that also helps you make and stick to a budget. Assign budget codes to each expense and find out exactly where the money went. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 1057)

ExpressGraph A graph maker that provides a variety of formats such as pie, bar, line, and more, and allows further customizing. See *Graphing Programs*.
(PC-SIG Disk# 1058)

Extended Batch Language EBL enhances the batch file processor supported by DOS: write files that prompt for response, keep track of variable values, and make backups. See *Programming, Tools*.
(PC-SIG Disk# 124)

Extension The characters of a filename following the period. Not all files have extensions, but for those that do the extension often reveals what kind of file it is. In the filename LETTER.TXT, the extension is TXT, which tells you it's a text file.

Extlib C Programmers — Here's a library of more than 50 C run-time video routines featuring windows, menus, direct video memory I/O, and cursor control routines. See *Programming, C*.
(PC-SIG Disk# 1324)

EZ-COPY-LITE A disk duplicating system that allows you to make as many verified copies of a disk as you like. See *Copy Utilities*.
(PC-SIG Disk# 1201)

Ez-Desk Desktop manager that supports an appointment calendar, a letter file, mailing lists, modem control, and an editor. See *Desktop Organizers*.
(PC-SIG Disk# 1256)

EZ-Forms Executive Design and print master business forms tailored to your individual needs. See *Form Creation Programs*.
(PC-SIG Disk# 404)

EZ-FORMS-LITE A menu-driven forms management system. Create, edit, store, fill in the blanks, and print your forms as needed. Many automated functions make this a powerful piece of software. See *Form Creation Programs*.
(PC-SIG Disk# 1202)

EZ-Menu A quick and easy way to run programs — shortcuts around many commands and keystrokes. See *Menu Programs*.
(PC-SIG Disk# 444)

EZ-SPREADSHEET A spreadsheet package that has all the standard functions that you expect. Exchange files with other spreadsheets via ".DIF" files. See *Spreadsheets*.
(PC-SIG Disk# 695)

EZCount Writers, secretaries, transcribers — Count the number of words in a standard ASCII file. See *Word Processor and Text Utilities*.
(PC-SIG Disk# 724)

EZDO EZDO (Easy Disk Operations) is a file and directory utility that gives you additional capabilities to DOS. See *File Management Utilities*.
(PC-SIG Disk# 1176)

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Facing the Empire A game of wits and strategy, you prepare an entire fleet for battle. Once armed, seek out enemy bases and destroy them before they destroy you and your fleet! See *Games, Adventure and Text*.
(PC-SIG Disk# 1075)

Fact Pack Pair of fun programs that help sharpen basic arithmetic skills for students in grades 1-8. Drills can be timed and reports of the results printed. See *Children's Programs (ages 2-10)*.
(PC-SIG Disk# 1381)

FallThru You and up to two friends can play this text-based adventure game together, battling foes as you journey through a strange and dangerous land. Ages 12 to adult. See *Games, Adventure and Text*.
(PC-SIG Disk# 1389)

FAMILY HISTORY Trace your family history and genealogy. Also great for storing pedigree information. See *Genealogy*.
(PC-SIG Disk#'s 361, 632)

Family Ties Ready to track down your relatives? Use this genealogy program to recreate the family structure and save it for those future generations. See *Genealogy*.
(PC-SIG Disk# 465)

Family Tree Genealogy A general-purpose genealogy system designed for charting and maintaining family tree information and relationships between individuals. See *Genealogy*.
(PC-SIG Disk# 240)

FamTRACK FAMTRACK is an effective management tool designed to make the unpleasant task of family budgeting — if not fun — survivable and profitable. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 889)

Fancy Label Maker A simple label printer for 3-1/2" x 15/16" stock with five lines per label up to 4" x 7/16" stock with eight lines per label. See *Label Makers*.
(PC-SIG Disk# 871)

Fansi-Console An improvement on DOS's ANSI.SYS. Provides support for enhanced keyboards, macros, PS/2, VGA, and Super-EGA display adapters. See *Utilities, System or Hardware*.
(PC-SIG Disk#'s 356, 650)

Fantasy Use your mouse or cursor keys to create flowing designs and animated art. Save to disk to replay whenever you like. See *Paint and Drawing Programs*.
(PC-SIG Disk# 1305)

Farm Management See *Agriculture*.

Fast Invoice Writer FAST INVOICE WRITER is for the small business owner. Produce invoices, P.O.'s, requisitions, or any document similar in format. Compute taxes or bill by the hour — the program does all the calculations. See *Accounting, Billing*.
(PC-SIG Disk# 1147)

Fast Statement Writer Print monthly totals of invoices, statement labels, and inserts. Handle many details about shipping charges and taxes. See *Accounting, Billing*.
(PC-SIG Disk# 1216)

FastBucks FASTBUCKS is a completely menu-driven home-finance program that is easy to understand and operate. It handles personal checking and charge accounts and helps to create workable household budgets. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk#'s 855, 1296)

FDate Instead of changing the date on your system so you can change the date on a file, use this file-date change utility. See "DOS Utilities No 16" listed under *File Management Utilities*.

Field The place where individual pieces of information are held in each record of a database. For example, in a database of people the information on each person makes up their record, but the name, address, and phone number would each be stored in a separate field of that record.

File A file is a collection of interdependent information that is grouped together so it can always be found together. A file is also the unit that DOS usually works with. Files can be program files meaning they get your computer to do something. Files can be text files, such as a letter or a report. Files can be data files that store information for use by a program.

File Browser Lets you view the largest ASCII or WordStar files, and chop them down to size to fit your wordprocessor. Also, provides quick search for locating a particular word or line of text in a file. See *Word Processor and Text Utilities*.
(PC-SIG Disk# 1398)

File Express Database management program: search and replace, sort 10 fields deep, print five-across mailing labels, organize and print reports. Detailed user's manual. See *Databases*.
(PC-SIG Disk#'s 287, 288)

File Friend FILEFRIEND is a memory-resident file manager that can display files from up to 10 disks and subdirectories. See *DOS Shells*.
(PC-SIG Disk# 871)

File Indexing See *File Management Utilities*.

File Management Utilities

■ ArgaUtilities: Argafind, ArgaMenu, Argacopy

Three related programs to simplify life on the hard drive!

ARGA-FIND is welcome relief for hard disk owners who forget in which directory, or sub-sub-subdirectory they left a needed file! A misplaced file lost somewhere on a 20 MB hard disk is the modern day "needle in a haystack"! Fortunately, this program does the searching for you and displays the located filename, length, date, time, and path to get to it. Since "wild-cards" are permitted, the full filename need not be known. This version can search a maximum of 512 directories, with 512 files per directory.

ARGA-MENU makes it easy for you to bring order to your countless files and programs on your hard disk by creating point-and-shoot menus. This means you can automatically call up a program on any drive or directory, without needing to know where it's located or defining its DOS path — all with one keystroke. When you exit one of these files or programs, you are automatically returned to the menu. Menus are a great way of limiting other users to specific programs or files in your system where they can do no harm!

ARGA-MENU can hold up to 90 menu selections, organized as nine pages with 10 entries on each page. Menus in different directories can be "chained" to each other for greater flexibility. The program guides you through installation and updating, with all menu entries made from the menu, without using of a text editor or wordprocessor.

ARGA-COPY is a DOS shell that lets you do the most common DOS operations (copy, delete, etc.) with the direction cursor keys or a mouse. When performing housekeeping chores on a hard disk, or even floppies — such as erasing no longer needed files, moving files from one directory to another, etc. — you will quickly appreciate not having to continuously type in DOS commands and path names! A click or keystroke selects any of eight of the most useful DOS commands, and three file sort functions.

(PC-SIG Disk# 1359)

Special Requirements: *Mouse optional.*

Author Registration: *$15.00 for each program.*

■ Baker's Dozen

This disk of utility programs, from the author of PC-File+ and PC-Calc+, is a must for anyone who owns a PC. BAKER'S DOZEN is packed with more than 13 handy utility programs to run alone or from the menu.

Some of BAKER'S DOZEN utilities: a powerful disk program to recover deleted files, a calendar that can be memory-resident, a file finder that searches strings of text, a sideways printer, a mini-spreadsheet that supports formulas, trig, business functions and hexadecimal/decimal conversion, and much more.

(PC-SIG Disk# 800)

Special Requirements: *None.*

Author Registration: *$59.95*

➤***ASP member.***

File Descriptions:

BTTNCALC	EXE	One-page spreadsheet.
DOZEN	BAT	Batch file to run BAKER'S DOZEN.
SWLPT12	COM	Switch printer ports for LPT1 and LPT2.
SWCOM12	COM	Switch RS-232 ports for COM1 and COM2.
SNAPSHOT	COM	Take pictures of any 80-column screen (not graphics).
SET-SCRN	EXE	Used to set screen border color and default screen colors.
CALENDAR	COM	Programmable date calendar.
RDIR	EXE	Remove subdirectory including all files and all children.
PRN-FILE	EXE	Redirects all information normally sent to your printer.
PC-SORT	EXE	Sort files with up to four fields.
P90	EXE	Print files at ninety degrees (also prints normally).
LOCATE	EXE	Find any file(s) on disk.
GKEY	EXE	Provides all keyboard information.
FILECOMP	EXE	Compare two ASCII text files.
DISKUTIL	EXE	Disk utility program.
BAKERS12	EXE	Menu program to run the dozen utilities on this disk.
CAL	DAT	Data for holidays in calendar.
DOZEN	TBL	Lookup table used by menu program.
SETSCRN	COM	Sets up screen.

RESPONSE		User response form.
READ	ME	Shareware notice and introductions.
ORDER		Order form.

User Comments: *"Nice program collection. The spreadsheet is one of my favorites." "Menu-driven, fast. The disk utility and find programs are the best." "Well written, useful programs. Excellent utilities. Useful in business." "Very attractive. The graphic-based editor is great touch."*

■ Best Utilities

The programs here are a collection of some of our most popular utilities gathered from other disks in our library. Some of the high points include: a DOS command editor that remembers your last 15 DOS commands executed, a couple of selective copy-and-delete utilities to perform mass-file functions with ease and confidence, and utilities to let you BROWSE text files in a much easier manner than your DOS TYPE command.

(PC-SIG Disk# 273)

Special Requirements: *None.*

Author Registration: *BACKSCRL $20.00, and SP $15.00.*

File Descriptions:

BACKSCRL	COM	Retrieve what has scrolled off screen top — very useful.
BROWSE	COM	Browse through text files of any size.
BACKSCRL	DOC	Documentation for BACKSCRL.COM.
MEMBRAIN	EXE	Flexible RAMdisk.
MEMBRAIN	DOC	Documentation for MEMBRAIN.EXE.
GDEL	EXE	Selective delete utility.
GDEL	DOC	Documentation for GDEL.EXE.
GCOPY	EXE	Selective copy — changes date to current.
GCOPY	DOC	Documentation for GCOPY.EXE.
FILEDUMP	COM	Display disk sectors on screen.
BROWSE	DOC	Documentation for BROWSE.DOC.
MOVE	COM	Flexible copy, copy-and-erase utility with prompts.
NDOSEDIT	COM	DOS line editor, adapted from VMS.
MOVE	DOC	Documentation for MOVE.COM.
SP	DOC	Documentation for SP.EXE.
SDIR24C	DOC	Documentation for SDIR24C.COM.
SDIR24C	COM	Flexible screen directory display — many options.
NDOSEDIT	DOC	Documentation for NDOSEDIT.COM.
SP	EXE	Super spooler program — variable size.
ST	COM	Super type command — 2-way scrolling.
ST	DOC	Documentation for ST.COM.
VDEL	COM	Selective delete utility — prompts to delete each file.
WHEREIS	DOC	Documentation for WHEREIS.COM.
WHEREIS	COM	Find a file in any subdirectory.

User Comments: *"Indispensable for anyone who uses a PC." "A great combination of very useful utilities."*

■ Circle Software

CIRCLE SOFTWARE is a menu-driven, DOS-level command shell with loads of utilities to help you get more from your PC.

Utilities include:

- COUNT counts words in ASCII files
- DELE deletes all files except the ones specified to be retained by date, filename, or file extension
- DSPTXT displays text in a file, can also show parts of a file
- FIND finds lines in a file and prints them
- FINDF finds character strings located anywhere in the file name extension
- MODE80 switches screen to 80-column color mode
- PCOMP compares files using partial file names
- PCOPY copies files using partial file names
- PFIND finds information between special markers
- PMENU is a screen printing interface
- PPRINT prints ASCII files in a formatted layout, allows suppression
- PRTCODE sends special user specified print codes to the printer

- PRTLBL prints address labels found using PFIND
- PSND sounds the speaker
- PSORT sorts blocks of data
- RUN_IT allows user to run an executable file from anywhere in the directory structure

Help files for each menu and command are presented on the screen in a window next to the command menu. The user can also create his/her own help files that show in the same way.

Includes also, PURSUIT, a survey maker. The program allows the user to construct a set of questions and store the answers in a database for later analysis.

(PC-SIG Disk# 1331)

Special Requirements: *Hard drive and a printer.*
Author Registration: *$15.00 to $30.00.*

■ Dabutil

DABUTIL offers hard disk users a half-dozen valuable utilities to help them maintain their files and disks.

A list directory command lists directories on any drive showing the number of files and the sum of their file sizes including hidden files. The find file utility lists all the occurrences of a file and the directories it is found in. Disk information lists a variety of information about diskettes and fixed disks. It shows sector size, track size, cluster size, FAT, and root directory.

(PC-SIG Disk# 1176)

Special Requirements: *Hard drive.*
Author Registration: *$10.00*

■ Diredit

Edit your DOS directories. DIREDIT helps you to sort your directories in various ways — by filename, extension, size, etc. Specify arbitrary order and move individual directory entries. Display each directory in a very compact manner with up to 80 filenames visible on the screen at once. Need more information? You can see the full file description for any entry simply by moving the cursor to the name.

Use DIREDIT to arrange your directories on disk for more efficient access. Resort them temporarily on the screen while searching for a file, all without disturbing the directory structures on disk.

(PC-SIG Disk# 908)

Special Requirements: *None.*
Author Registration: *$20.00*

■ DOS Extensions

An interesting series of extremely flexible and useful DOS enhancements. These are not meant to replace standard DOS commands, but to add versatility and utility as powerful supersets of these commands.

Features include: multiple file names on command lines; 16 new wild cards; visual file selection; more useful file/system information; retrieval of deleted files; measurement of elapsed time of programs or commands, and directory sorting. These extensions can also be combined to create new functions or process multiple files with one command.

(PC-SIG Disk#'s 585, 586)

Special Requirements: *None.*
Author Registration: *$55.00*

File Descriptions:

The First Disk Contains:

REF	DOC	Documentation — reference manual for DOS Extensions.
LS	EXE	DOS extension — directory lister.
USER	DOC	Documentation — installation and use of extensions.

The Second Disk Contains:

ATT	EXE	DOS extension — view or change file attributes.
WHEREIS	EXE	DOS extension — file locator.
VOLM	EXE	DOS extension — view or change volume name.
CAT	EXE	DOS extension — concatenate files.
ALARM	EXE	DOS extension — sound a controllable tone.

INP	EXE	DOS extension — input data to a DOS pipe.
INFO	EXE	DOS extension — display disk, or memory information.
GPM	EXE	DOS extension — find text patterns in files.
DIRSRT	EXE	DOS extension — directory sorter.
CP	EXE	DOS extension — copy files.
CMD	EXE	DOS extension — execute programs, commands, .bat files.
CLK	EXE	DOS extension — elapse time of programs or commands.
UNIQ	EXE	DOS extension — duplicate text line handler.
UNDEL	EXE	DOS extension — retreive a deleted file.
TXLAT	EXE	DOS extension — character translator.
TEE	EXE	DOS extension — DOS pipe output controller.
STAT	EXE	DOS extension — statistical text file information.
SLEEP	EXE	DOS extension — pause command.
SELECT	EXE	DOS extension — visual selector.
SED	EXE	DOS extension — file editor.
RM	EXE	DOS extension — delete files.
RENM	EXE	DOS extension — rename files.
RENDIR	EXE	DOS extension — rename a subdirectory.
PRNT	EXE	DOS extension — output selected text lines of files.
MV	EXE	DOS extension — move files.
MERGE	EXE	DOS extension — merge text lines from multiple files.

■ *DOS Utilities 16*

This collection has a bit of something for every DOS user. Find files lost in a hard disk subdirectory or in a big pile of floppies. List BASIC and WordStar files without having to go into either program first. Develop a visual DOS shell, remove hidden directories, manage your memory, increase the speed of your disk drives, create a disk catalog, print disk labels, and much more. If you've ever been frustrated by the design of DOS commands, this is a library you will use often.

(PC-SIG Disk# 319)

Special Requirements: *None.*

Author Registration: *$10.00 for SDIR50.*

File Descriptions:

SCAVEN	DOC	Documentation for SCAVEN.
DRVTEST	BAS	Simple disk test.
DISKORAY	EXE	Check diskette for rotation speed and seek test.
COVER2	COM	Prints compressed directory for diskette envelopes.
COVER	DOC	Documentation for cover2.
KNEW	DOC	Documentation for KNEW.EXE.
HIDE_RD	COM	Remove a hidden directory.
HIDE_MD	COM	Make a hidden directory.
HIDE_CD	COM	Access a hidden directory.
HIDE	DOC	Documentation for HIDE, a simple security system.
FDATE	DOC	Documentation for FDATE.
FDATE	COM	Change date and time stamp of a disk file.
FASTDISK	COM	Part of SPEEDUP.
SCAVEN	COM	Protect blocks from being deallocated by CHKDSK.
RENDIR	COM	Rename directories.
READBAS5	EXE	List a non-ASCII basic program without loading BASIC.
PFM	COM	Visual shell for DOS commands.
PC-DISK	COM	Catalogs your floppy diskettes.
MOVE	DOC	Documentation for MOVE2.
MOVE	COM	Copy files to new dir and verify copy, erase old copy.
LISTPAST	COM	List all files created before today.
LISTARCH	COM	List all archive files.
KNEW	EXE	Copy *.* but only new files with more recent date stamp.
LIST——	DOC	Documentation for LIST2DAY,LISTPAST,LISTARCH.
LABEL	LBR	Part of COVER2.
LIST52	HLP	Part of LIST52.
LIST52	DOC	Documentation for LIST52.
LIST52	COM	Scroll up and down through files using editor keys.
LIST2DAY	COM	List all files with today's date stamp.
SDIR26	COM	List directories in 4 columns with file name and size.
SDIR50	COM	Visual shell for executing DOS programs.
SDL	COM	List directories sorted by various means.

SDISK2	DOC	Documentation for SDISK2.
SDISK2	COM	Sorts disk directory so dir will list files in order.
SDIR50	DOC	Documentation for SDIR50.
SHOWDIR	COM	List subdirectories in a given directory.
SDL	DOC	Documentation for SDL.
SORTF	EXE	Sorts ASCII data files.
SORTF	DOC	Documentation for SORTF.
SPEEDUP	DOC	Documentation on SPEEDUP.
SPEEDUP	COM	Make your floppy disk run faster.
TD13	DOC	Documentation on TD13.
TD13	COM	Combines DOS TREE and DIR commands; makes a better tree.
ST	DOC	Documentation for ST.COM.
ST	COM	List WORDSTAR files one screen at a time.
TREE2	COM	Tree showing only subdirectory names without file names.
UNIQCOPY	BAT	Same as copy *.* but only new files not on target disk.
UNIQCOPY	DOC	Documentation for UNIQCOPY.
VFILER	EXE	Visual interface for maintaining files and subdirectories.
VFILER	DOC	Documentation for VFILER.
Z	EXE	Visual shell lets you look at your directories.
WHEREII	DOC	Documentation for WHEREII.
WHEREII	COM	Finds directory path for all copies of a file on a disk.
READ	ME	Notes on DB Screen.

■ *Eddy*

EDDY (EDit DirectorY) lets you edit the elements of a directory entry. These are filename, date, time, and file attributes.

The program has commands to copy and move a file, as well as delete and/or destroy a file (or files). Additional commands let you view the contents of a file, and patch the data. A provision is made for viewing the directory in hex or text, as well as a "bit-stripping" feature that translates WordStar into ASCII files.

A single keystroke inserts the current date and time into any directory entry. Changes made to directory entries are not written to disk until you choose to do so. Also provided is an undo function. EDDY has extensive help, available at any time.

(PC-SIG Disk# 1026)

Special Requirements: *Hard disk.*
Author Registration: *$15.00*

User Comments: *"Eddy is an excellent directory utility; Tpop is useful."*

■ *EZDO*

EZDO (Easy Disk Operations) is a file and directory utility that gives you additional capabilities to DOS.

With EZDO, you can sort the files within the present directory, find a file in the directory, change a file's attributes, and mark a group of files to perform a certain operation. You can copy, delete, rename, change directories, and make directories. The screen display can be saved to a disk file. EZDO can invoke other programs to edit, view, and print a file. A general purpose user-definable program may also be invoked on any selected file.

(PC-SIG Disk# 1176)

Special Requirements: *None.*
Author Registration: *$12.95*

■ *FindFile*

FINDFILE searches all your drives and subdirectories for a particular filename, then displays all its locations on-screen. You can interrupt the search at any time by pressing the ESC key. FINDFILE lets you use wild card characters when entering the filename.

(PC-SIG Disk# 1425)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Hyde

Protect your data — HYDE allows you to hide/unhide files. When you hide a file, it won't be accessible by DOS until you use the unhide program.

(PC-SIG Disk# 877)

Special Requirements: *None.*
Author Registration: *$15.00*

■ LightWave Utility Disk

LIGHTWAVE UTILITIES is a large collection of useful programs; some are quite uncommon. WHERE looks in all the directories of a specified drive and reports where a filename occurs. LS and DR both give sorted directories listed in column form, but DR also includes file size information.

The other seven utilities are in BASIC, and they include the source code. They will:

- Show you all the screen attributes of your screen
- Show you all the screen characters
- Find all the active memory in your PC
- Tell you when your BIOS chip was designed
- Tell you when your BASIC chip was designed
- Show you the keyboard status bits
- Perform percent-change calculations from one month to the next

(PC-SIG Disk# 736)

Special Requirements: *A version of BASIC.*
Author Registration: *$20.00*

■ Locate

LOCATE can help you quickly and conveniently locate files by searching for key words. It has two programs: INDEX and LOCATE. INDEX scans all the files on a specified disk and builds an index, while LOCATE uses that index to make a list of files with the specified keywords.

The program has some limitations — it won't recognize less than three characters or more than seven. It makes no distinction between words whose first seven characters are identical. For example, "complication" and "complicity" would both be regarded as "complic." To solve this problem, more than one word can be specified for the search criteria.

(PC-SIG Disk# 731)

Special Requirements: *None.*
Author Registration: *$20.00*
User Comments: *"Excellent fast text search utility. Beats Norton's Text Search hands down."*

■ Master Key

MASTER KEY is a powerful disk and file manipulation utility, comparable to programs like Norton Utilities.

Edit any part of any disk or file using a handy windowed hex and ASCII screen dump. Editing can be from the ASCII text or the hex dump. Menus and organization help you learn the package quickly. Many other utilities are included, such as duplicate file search, file renaming and erasing abilities, and unerasing of files mistakenly erased.

(PC-SIG Disk# 598)

Special Requirements: *None.*
Author Registration: *$25.00*
➤ ***ASP member.***
User Comments: *"Good "tool box" item." "Thanks. I'm always erasing the wrong file." "The Hex/ASCII combination is useful for debugging."*

■ Miscellanous Utilities

This disk contains about 20 different utilities for your PC or compatible computer. For example, the selective print screen utility will select the number of rows on the screen that you want to printout using the "PrtSc" option on your keyboard. An "unprotect" guide helps you run "Managing Your Money" from a hard disk without inserting the original disk in drive A.

Also included are communication utilities for Qmodem and other utilities for Microsoft Word; DOS command utilities within windows; some C language utilities; how to unprotect Chessmaster 2000; a multi-level window in Turbo BASIC; and more. See File Descriptions for explanations of individual programs.

(PC-SIG Disk# 906)

Special Requirements: *CGA and two floppy drives.*

Author Registration: *$5.00 to $50.00 depending on the program.*

File Descriptions:

DBRELATE	ARC	Extensions of dBase, Clipper relations.
CORDFORM	ARC	AIAchange order for Microsoft Word with style sheet.
CM2PTCH	ARC	Patch for Chessmaster 2000.
99	DIR	Telecommunication service library directory.
MIRRORDD	ARC	Dialing directory from Mirror.
LOCKIT	DOC	Documentation for LOCKIT.COM.
DR	ARC	Better than DIR from "PC Magazine."
DC1	ARC	PC Junior DOS color program from CIS.
LOCKIT	COM	Lock/Unlock keyboard — turn screen on/off.
FACE	COM	Lots of faces on your screen.
LINE26	DOC	Documentation for LINE26.COM.
LINE26	COM	Memory resident program that displays status info.
MYMENU	ARC	Menu maker for hard disk.
NEWDEX	ARC	Great floppy disk cataloger.
MYMUNP	ARC	Managing Your Money patches with version 3.0.
TYPEHEAD	ARC	Clipper/dBase3-type ahead quash and why. With demo progra
TCSEARCH	ARC	Search for files - Turbo C source code.
TC-EQUIP	ARC	Display PC equipment - Turbo C with source code.
TBWINDOW	ARC	Turbo BASIC window routines with source code.
SLEEVE2	ARC	Print DIR on disk sleeve.
SLEEVE1	ARC	Make disk sleeve with DIR on it.
QUICKCHA	ARC	Change color on any programs.
PRNTSCR-	ARC	Print any part of screen with PrtSc key.
PKFIND11	EXE	Locate files on hard disk.
PCKWKPAT	ARC	Patch for shareware PC-Kwik.
PKXARC	COM	Archiving utility.

■ Process

PROCESS simplifies access to many small programs using a point-and-shoot technique. It can be started from either the DOS command line or a batch file.

(PC-SIG Disk# 1305)

Special Requirements: *None.*

Author Registration: *$20.00*

■ Read My Disk!

Anyone who works with ASCII-based databases, wordprocessors, or any program that stores its data in ASCII files will find this program useful. READ MY DISK! recovers ASCII data from a floppy or hard disk that has been severely damaged. This damage can be missing file allocation tables, missing directories, deleted files, magnetically damaged disks, and even disks with holes in them. In other words, if the disk will fit in your disk drive, then the damaged data can be recovered.

When READ MY DISK! recovers data, it writes the data to an undamaged formatted disk. If needed, you can specify the size of the file in case you have a wordprocessor with limits on the size of the files it can handle. You can also specify if you would like high-order bit characters saved. This helps if you have damaged a file that was saved in a format used by WordStar or any other program that uses its own characters.

READ MY DISK! works on all floppy and hard disks up to 32 megabytes in size.

(PC-SIG Disk# 1394)

Special Requirements: *Two floppy drives.*

Author Registration: *$20.00*

■ Sorted Directory

SDR.COM provides more information than the resident DOS DIR command about the files on a disk, and lets you select, sort, format, and display the information in a variety of ways. You can specify a pattern name to select the desired files and by specifying any of a variety of command line switches. The default switch values have been carefully chosen to reflect their most common use, and for compatibility with the standard DIR command. Select files by attribute, age, or string match. Sort on any directory field. Global disk directories can be searched for files matching the specified criteria.

Use in stand-alone mode or as memory-resident. It is possible to use SD in an almost infinite variety of ways by using the switches in different combinations. Designed to be as transparent as possible in normal operation, it does not impose itself between the user and the operating system. Novices or experienced users both can profit from this utility.

(PC-SIG Disk# 933)

Special Requirements: *None.*

Author Registration: *$20.00*

User Comments: *"Simple, and easy to use. Adequate documentation."*

■ SUP

Another little victory in the battle against copy protection. SUP removes copy protection from most Sierra On-Line games, such as the popular KING'S QUEST and SPACE QUEST. Now, you can have a backup or install the program on your hard disk. It works only with games called up from DOS and does not handle self-booting disks.

(PC-SIG Disk# 1406)

Special Requirements: *None.*

Author Registration: *$10.00*

■ Utility Potluck

Are you looking for a nifty little gimmick to customize your own shareware release or perhaps the disks you share with friends or members of your local users group? If so, get DISK SIGN.

DISK SIGN is a simple, inexpensive package that lets you place a customized message of up to three lines in length into the DOS directory. The message is displayed each time someone uses the DIR command on the disk. The special title or business name is displayed in vertical columns and outlined in borders for emphasis. Operating this package is easy and uses very little memory. One of the more clever promotional or marketing ideas to come around in a while!

Keep sensitive data protected with CIPHER — a powerful encryption package that can turn any file into an unintelligible jumble of random characters. Only you have the key to unscramble it back into a readable form. Each encoding can have up to 50 printable characters. And, unlike most other file encryption schemes, CIPHER is very difficult to uncode because it's based on sophisticated techniques similar to those used by U.S. Government agencies.

AUTONUM is a simple, useful program for assigning sequential numbers (seven digits maximum) to such items as purchase orders, invoices, statements, checks, memos, and many other business forms. It works by using batch files to effectively automate the numbering process and reduce the possibility of repetitive errors.

If you're tired of typing multiple keystrokes to execute common DOS commands, then MASTERDOS can relieve your keyboard-cramped fingers. DOS commands are reduced to single keystrokes making the overall operation of your DOS-based machine a breeze. Master configurations are stored as data files to eliminate re-entering of data. MASTERDOS has selectable terminal emulations and includes commands to copy files, change drives, erase files, locate files globally, reorder files on-screen, type files, and perform many other features.

Learning MASTERDOS requires minimal training time, and on-line help is only a function key away. Six pages of well-written documentation cover the basics of operation.

(PC-SIG Disk# 1101)

Special Requirements: *None.*

Author Registration: *$20.00 to $40.00.*

■ What

It's been three months since you used that file. You know it's in there somewhere, but where? And what the heck did you name it? If you had used WHAT, you'd be able to find it quickly.

If your filenames have lost their meaning, WHAT will make sense of them. This program maintains a listing of your files and directories and lets you attach descriptions of up to 61 characters for each. You then can use WHAT's search facility to locate that obscure file you know you have, somewhere...

(PC-SIG Disk# 1305)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Xanadu Utilities

XANADU UTILITIES has some very useful programs. HOTDIR, for example, is a colorful sorted directory program that displays different colors based on file extension. The directory listing can be sent to the screen, printer, or disk file. Files can be sorted by name, extension, date, size, or other criteria. It can automatically display all files: hidden, system, archive, directory, read-only, and normal.

PCSTAT3 displays disk/RAM statistics and is much more extensive and quicker than CHKDSK.

SFIND finds files quickly anywhere on the disk and then lists on the screen all the matching files. SFIND can list files found even in an archive file.

(PC-SIG Disk# 737)

Special Requirements: *None.*
Author Registration: *$25.00*

■ XCUTE

Execute any program in any directory or subdirectory. Go immediately from application to application in different directories just by typing the name of the program — or even a partial name if you have forgotten the whole name. If there are several programs that match your partial entry, XCUTE will list each matching program individually and will ask you if that is the program you wish to execute. When using a hard disk and thousands of programs, XCUTE will do the work of finding your program and will even execute it for you.

(PC-SIG Disk# 818)

Special Requirements: *None.*
Author Registration: *$20.00*

User Comments: *"Well designed. It's become indispensable." "An excellent, easy-to-use tickler program for the unorganized procrastinator. Just what I needed."*

■ Xdir

XDIR replaces the DOS commands DIR and COPY with enhanced functions, and adds a function that DOS forgot — MOVE.

MOVE a file from place to place in a directory or to a completely different directory. XDIR will move it and delete the original. You don't have to worry about it.

Put a 65-character comment onto each file. When you copy the file, the comments are copied right along with it. You can even rename the file. You can't fool XDIR.

This program is great for people who tend to use very cryptic file names — now you can comment these files to remember what they were.

(PC-SIG Disk# 724)

Special Requirements: *None.*
Author Registration: *$10.00*
➤***ASP member.***

■ XDOS

A handy collection of DOS enhancements that will make your life a little easier.

ALARM is a RAM-resident alarm clock to remind you of those important appointments and commitments. Go ahead and work on your application. This clock will call you anyway.

CAT is similar to the DOS DIR command with some major exceptions:

- CAT pauses at the end of each screen of listings and waits for a prompt from you before proceeding
- Files in subdirectories are automatically listed — down to five levels of directories
- All files are displayed, including system and hidden files
- The display is more aesthetically pleasing than DOS

HELP is a text file that explains and expands on the use of DOS commands and syntax. Exit to DOS at any time.

LOCK lets you change two of a file's attributes — locked and hidden. Consider using this for sensitive or confidential information.

NOPRINT lets you divert data being sent to the printer and display it on your monitor. Helpful when developing and testing printed output without using a printer.

(PC-SIG Disk# 444)

Special Requirements: *None.*
Author Registration: *$10.00*

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File Searches See *File Management Utilities.*

File Transfers See *Communication Programs.*

File-Man A file management utility that organizes your directories and files easily and simply. See *DOS Shells.*
(PC-SIG Disk# 1199)

Filecomp Compare two ASCII text files for differences. All lines that are different will be shown on screen and may be sent to your printer. See "Baker's Dozen" listed under *File Management Utilities.*

Filer Finder On-disk catalog. Describes over 500 commercial software programs for information management. Find the specific package for your specific needs. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk#'s 1047, 1048)

Filter A filter is a DOS program which intercepts information being sent to a device, modifies it in some way, then sends it on to the device. The term can also refer to the sorting of information, or the elimination of electronic noise on a line.

Finance Calculator A set of financial programs for many different purposes. BASIC source code is included for the curious and the tinkerers. See *Programming, BASIC.*
(PC-SIG Disk# 29)

Finance Manager II Complete accounting system for up to 2000 customers. Double-entry bookkeeping. Top rated program! See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 151)

Finance Mgr II Accounts Receivables Send out pre-printed invoices and statements to 2000 customers using balance-forward accounting. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 1107)

Financial Calculator Menu-driven help for calculating interest on loans, savings, or payments. See *Loan Calculators.*
(PC-SIG Disk# 994)

Financial Calculators See *Loan Calculators.*

Financial Data See *Reference Materials (books/articles/information/data).*

Financial Statements See *Accounting, G/L, A/P, A/R, Payroll.*

Findata Corporate Profile Wall Street on a disk. In-depth financial information on over 5000 publicly traded corporations. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk#'s 1051, 1052)

FindBBS Call any of the hundreds of computer bulletin boards across the U.S. with the phone numbers provided by FINDBBS. See *Bulletin Board Systems (BBS).*
(PC-SIG Disk# 1370)

FindFile FINDFILE searches all your drives and subdirectories for a particular filename, then displays all its locations on-screen. See *File Management Utilities.*
(PC-SIG Disk# 1425)

Finger Painting Program Drawing and paint program with text fonts for use with CGA or Hercules. Variable text fonts, two-page editing, and animation add that something extra. See *Paint and Drawing Programs.*
(PC-SIG Disk# 763)

Fire A good strategy game in which you build fire breaks and drop water from a helicopter to keep your section of the forest from burning away. See "Game Series 21" listed under *Games, Arcade.*

FishBase II Keeps track of all the cold, hard facts of up to 800 fishing trips. It also prints such reports as which lure worked best for which fish, and where your best fishing spots are and when. See *Sports Management.*
(PC-SIG Disk# 1358)

Fishing Games See *Games, Arcade (Sports).*

Fishing, Record Keeping See *Sports Management.*

FITT Lotus 1-2-3 Tax Worksheets A template for calculating your 1985 Federal Income Tax. Although it is currently out-of-date, it can be updated to current times. See *Spreadsheet Templates.*
(PC-SIG Disk# 290)

Five Dice Game An addictive game of dice to play with two or more players. Three different strategies are provided. See *Games, Board and Dice.*
(PC-SIG Disk# 743)

Fixer Edit the extended ASCII character set. FIXER has a bar-menu on the top of the screen and a full-screen editor for your ASCII character set. See *Programming, Tools.*
(PC-SIG Disk# 978)

Flash Cards: Vocabulary & Spelling Flash card drills with a 7500 word dictionary to improve vocabulary and spelling for Junior High School level and up. See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk#'s 367, 368, 369, 370)

Fleet Management See *Auto/Vehicle Management.*

Flexical Stay on top of your business or social engagements with efficient and flexible engagement calendars and keep track of your running with the runner's diary. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1106)

Flight FLIGHT is a flight-planning program for private pilots. Calculate the magnetic course, the distance between waypoints, and the estimated time between each set of waypoints. See *Flying and Navigation.*
(PC-SIG Disk#'s 939, 1476)

Flightmare Fight off the Desert Warriors with your fighter plane before they capture your cities. You get a top-side view along with a cockpit view, so the action is true. See "Game Series 18" listed under *Games, Arcade.*

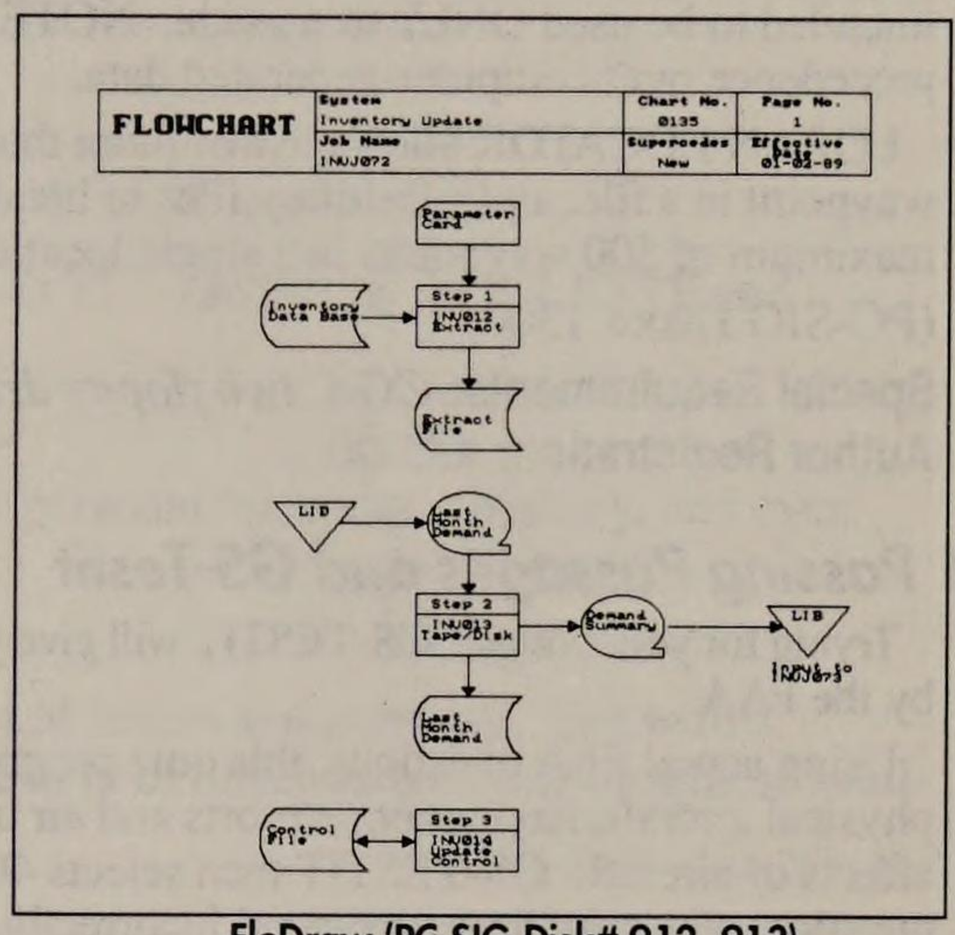
FLIST/PC FLIST/PC is a selection menu for manipulating your files in a more efficient manner. See *DOS Shells.*
(PC-SIG Disk# 933)

FloDraw A graphics editor for producing flowcharts, organization charts, and any other type of symbol-based diagram. Use supplied libraries or create your own. See *Paint and Drawing Programs.*
(PC-SIG Disk#'s 912, 913)

FlopCat A powerful disk catalog with features such as an alphabetical or numerical listing, wildcard searches, printed disk labels with complete information, and more. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 959)

Flowcharts See *Paint and Drawing Programs.*

FLU-SHOT+ and More Protects your PC's hard disk from viruses, trojan horses, and other pests. See *Security — File, Disk, or System.*
(PC-SIG Disk# 1119)



FloDraw (PC-SIG Disk# 912, 913)

Flying and Navigation

■ Flight

FLIGHT is a flight-planning program for private pilots.

Enter up to 20 waypoints by name and the estimated airspeed of the plane. The program matches the waypoints against data files, retrieves the latitude, longitude, and magnetic variation for each point, and then calculates the magnetic course, the distance between the waypoints, and the estimated time between each set of waypoints.

The results are printed on the screen, together with the total distance and the total estimated flight time. You can then have a flight log printed. The files containing the waypoints for FLIGHT can be edited from within the program or with an ASCII wordprocessor.

(PC-SIG Disk#'s 939, 1476)

Special Requirements: *None.*
Author Registration: *None.*

■ Freequent Flyer

FREEQUENT FLYER is for the airline frequent flyer club members to get the most of their travel bonuses.

An included comprehensive database contains airline, hotel, and car rental information. This is cross-referenced so you can see, for example, which hotels participate with which airlines giving mileage credit. This can save you money when making travel arrangements.

The database also has the following information to help you in your travel plans: which airlines offer mileage bonuses, which hotels offer mileage bonuses along with certain airlines, current special airline travel bonuses, travel information such as airline or hotel specials for a given city, list of all specials for a given city, and car rental specials associated with a particular airline.

FREEQUENT FLYER also provides a travel log which you can use to enter and track your own individual frequent flyer accounts. The system is completely menu-driven and all data entries are verified for correctness.

(PC-SIG Disk#'s 1365, 1366, 1367)

Special Requirements: *CGA and a hard drive.*
Author Registration: *$19.95*

■ Loran Locator

LORAN LOCATOR is a navigational aid for sail and engine-powered watercraft. Using the system requires prior knowledge of the Loran C navigational system, and the author suggests that a Loran manual be kept handy to enter GRIs.

The package is configured to operate in any Loran chain in the United States and most chains worldwide, and is intended to be used ONLY as a guide. NOTE: Common sense and navigational charts are intended to take precedence over computer-generated data.

LORAN LOCATOR allows use of more than one location file, offers a scratch pad for recording notes on any waypoint in a file, and subsidiary files to break up any location file that is becoming too large. There a is maximum of 500 waypoints in a single location file.

(PC-SIG Disk# 1300)

Special Requirements: *CGA, two floppy drives, and a wide-carriage IBM or compatible printer.*
Author Registration: *$35.00*

■ Passing Passages and GS-Testit

Trying for your wings? GS-TESTIT will give you practice to pass the Private Pilots' written examination administered by the FAA.

Using actual FAA questions, this quiz program lets you select from several subject categories, including: the physical aircraft, navigation, airports and air traffic control, FAA regulations, the weather, and the environmental effects of aircraft. GS-TESTIT then selects 40 multiple choice questions to quiz you on, tells you instantly which questions you may have answered incorrectly, lets you review the question and try again.

Included, also, is PASSING PASSAGES, an educational game where you are lost in a maze and confronted by FAA examiners who ask you test questions which you must answer correctly in order to move on! To survive, you must also find cash, food, and places to sleep. The right side of the screen shows a graphic representation of the hallways and doors, while the left side of the screen shows a map which is made as you explore the maze. May also be played without questions.

(PC-SIG Disk#'s 1362, 1363)

Special Requirements: *CGA.*
Author Registration: *$50.00.*

■ PC Flight Guide

For the sophisticated air traveler, PC FLIGHT GUIDE acts as your personal travel agent to save you time and inconvenience. It gives you total information on flights and travel plans between 200 North American cities and business centers.

With PC FLIGHT GUIDE you can:

- Search and display the routing of any flight
- View all the direct flights to any city
- Modify on-line those flights that have changed
- See every city you can fly directly from or to any other city
- See a list of cities suggested for one-stop connections
- Build a flight itinerary and print it out
- See all the official airline and airport codes

PC FLIGHT GUIDE shows you:

- 2500 hotel/meeting place/golf-tennis resorts
- 3000 toll-free telephone numbers for all sorts of travel related businesses, including airlines, rental cars, cruise operators, ground transportation operators, passport services, and more
- 85 seating charts for popular aircraft
- 45 airport layouts
- 20,000 direct flights, including frequency, leave time, arrive time, airline, flight number, and meal served
- Millions of connections. A printed flight guide would have to be taller than a one-story building to show you what PC FLIGHT GUIDE shows you about all your flight possibilities
- Visa and passport information for every country in the world

PC FLIGHT GUIDE does not:

- Give airfares or show class of service available
- Make reservations or require an on-line modem or data communications capability
- Make recommendations or rate services

PC FLIGHT GUIDE is completely menu-driven and very intuitive to operate.

(PC-SIG Disk#'s 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448)

Special Requirements: *640K RAM and a hard drive.*

Author Registration: *$119.50*

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Follies Eight board and pencil games including OTHELLO, 3-D TIC-TAC-TOE, ROULETTE and KENO. See *Games, Arcade*.
(PC-SIG Disk# 514)

FoneBook FONEBOOK lets you use your computer as your personal telephone directory, and even dials for you. See *Communication Programs*.
(PC-SIG Disk# 1226)

Font A font is a characteristic size and style that is uniform to a set of letters and numbers. Dot matrix printers can generally print in a number of different fonts with the help of different software programs available through The PC-SIG Library.

Font Editor Design and display your own special font characters. Two font editors have been provided: one for medium-resolution modes and the other for high-resolution mode. See Programming, Tools.
(PC-SIG Disk# 856)

Font Editors See *Programming, Tools*.

Fonts — Dot Matrix See *Printer Managers*.

Fonts — Laser See *Printer Utilities, Laser*.

Food and Drink Preparation

■ Computer Baker

THE COMPUTER BAKER is a computer recipe book containing 99 recipes for homemade — made from scratch — baked goods that are very quick and easy to prepare.

THE COMPUTER BAKER is completely menu-driven and provides the ability to select recipes from six categories: snacks (brownies and pastries), fudge and candy, muffins and biscuits, cookies, cakes and frostings, and pies.

(PC-SIG Disk# 1171)

Special Requirements: *None.*

Author Registration: *$5.00*

■ Edna's Cook Book

EDNA'S COOKBOOK is a program that will store and organize all your recipes and even provides password protection to keep your guarded family recipes secret from prying eyes.

Now, you no longer have to deal with disorganized slips of paper and clippings thrown together in a drawer or box, only to be frustrated when you can't find that particular recipe. EDNA'S COOKBOOK is a program for collecting, filing, sorting, finding, and printing recipes. Essentially, it is the equivalent of the cookbook in which you now keep all your recipes, except that it is electronic. The program may also be used in the preparation of cookbooks for publication.

The screen is divided into an ingredients section and a directions section, making it simple to enter your recipes along with a selected category (such as soups), a sub-category (lentil), a name (Mama's Hearty Soup), and a source where the recipe was obtained (my mom). Categories and subcategories can be changed to suit your own preferences. Once entered, recipes may be listed or printed individually, by category, sub-category, or all at once.

EDNA'S COOKBOOK automatically sorts and arranges your recipes for you alphabetically by category, then by sub-category, and then by recipe name — making it easy to find things. You can also encrypt any recipe you wish with a password, so that certain recipes may be kept private.

(PC-SIG Disk# 1229)

Special Requirements: *Printer.*
Author Registration: *$29.00*

■ Grocery

Save your budget and your diet. NEVER go into a grocery store without a grocery list and don't deviate from it once you're in the store. Know what you need, go get it, and get out while you're still in control. How? Use GROCERY!

The marketing specialists know that if we wander around without a specific idea of what to buy, we're more likely to "impulse buy." GROCERY keeps track of grocery items bought on a regular, or irregular, basis. Items are stored in aisles, and the program will handle up to 30 aisles with 36 items in each. Duplicate the floorplan and layout of your favorite store. Once all the data is entered, you can print out the entire list or only the items that you select. The printout is quick and organized according to aisle.

A few more words of advice — never shop hungry and don't look at the aisle end-caps!

(PC-SIG Disk# 856)

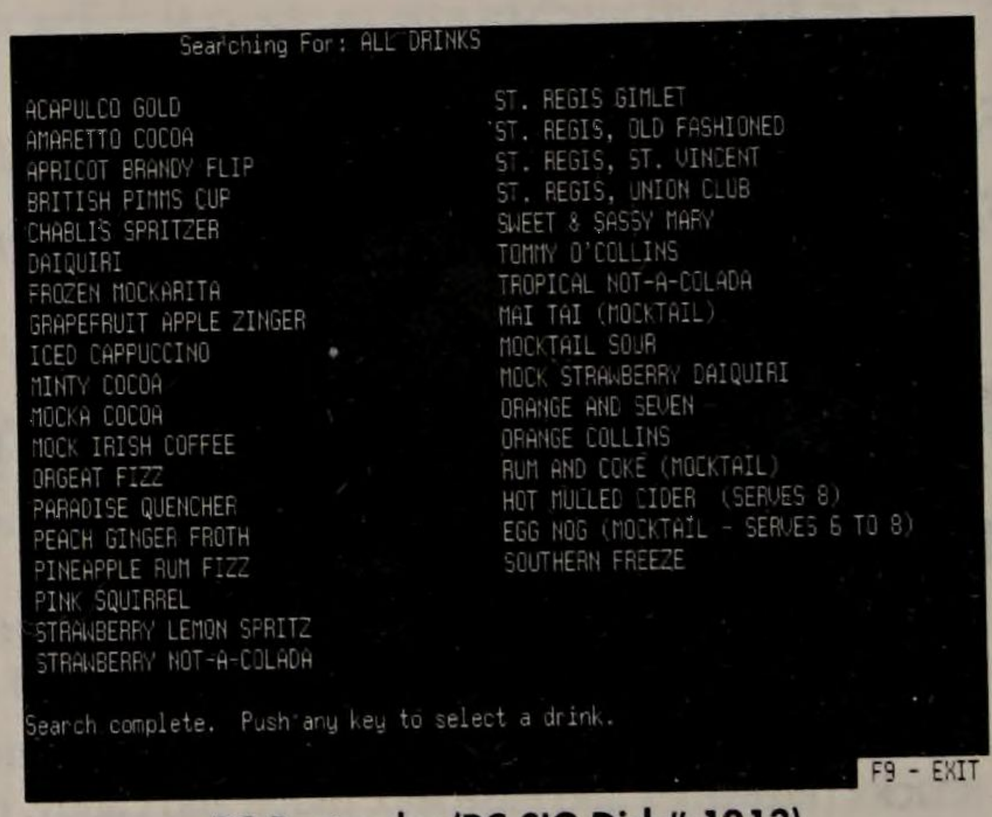
Special Requirements: *None.*
Author Registration: *$10.00*
User Comments: *"I will not go to the grocery store without it."*

■ PC-Bartender

Bring exotica to your next party by serving all those wonderful drinks with the amazing names you never can remember the next day! PC-BARTENDER can turn anyone into a talented mixicologist (that's a bartender) with its directions for mixing hundreds of legendary drinks such as Brandy Alexanders, Black Russians, Zombies, and old standbys like eggnog and mulled wine.

A full-featured program, PC BARTENDER helps you learn how to mix almost any alcoholic and nonalcoholic drink, suggest drinks, keep inventory, and know what drinks your inventory will make. PC-BARTENDER tells you in detail how to mix most any drink and you can easily add new concoctions.

It boasts nonalcoholic recipes called Mocktails for most drinks. If you are overstocked in some mixes or liquors, tell PC-BARTENDER. It will tell you what drinks can be made from them.



PC-Bartender (PC-SIG Disk# 1213)

(PC-SIG Disk# 1213)

Special Requirements: *None.*
Author Registration: *$15.00*

■ PC-SIG's CookBook Volume I

Here are all our favorite holiday recipes from the PC-SIG staff. Some of these have been handed down for generations and have never before been revealed. Others are secret recipes for such winners as Mrs. Field's cookies (cloned to perfection).

We think you will find this disk a flavorful experience! Everyone who tries this disk is invited to submit their own family's favorite recipe for future PC-SIG CookBooks. If your recipe is used, you will be given credit and will receive a free copy of the disk. Here's your chance to immortalize Mom's apple pie!

(PC-SIG Disk# 1215)

Special Requirements: *None.*
Author Registration: *A favorite recipe of your own. It might be included in the next volume.*

■ Recipe Index System

The RECIPE INDEX SYSTEM lets you index your recipes and then search through that index to quickly locate the names of recipes containing specific ingredients or of a certain category. It does not store the actual recipes themselves. You enter the principal ingredients of each recipe, not the steps used to create the food. The reports created by the search function do not create shopping lists or give portion size.

The RECIPE INDEX SYSTEM is completely menu-driven and fully documented. The most common use of this software is by people who have many cookbooks and food journals. They enter the name of the recipes they like, the ingredients, a source (name of book or journal) for the recipe (including page number), and category and style fields. When they use the search function to look for recipes that meet certain criteria, the source and page number information are used to find complete details about the recipe. This saves from having to enter into the computer endless details that are already in the books and journals.

Although originally designed to work with food recipes, this system can also index other concerns — like contents of drawers and storage boxes, or books and the major topics they cover. Any endeavor that can be broken into entries and subparts (like ingredients) can be indexed. You could even use it to track the contents of video tapes.

(PC-SIG Disk# 1317)

Special Requirements: *320K RAM and two floppy drives.*
Author Registration: *$30.00*

■ Recipes

Use your PC to plan weekly meals, parties and special holiday dinners. RECIPES contains over 125 recipes for delicious appetizers, soups, salads, pastas, breads, and desserts. RECIPES lets you find the recipes you want in seconds. However, you will not be able to add recipes of your own to the data file. Adjust serving sizes from one to 99, and print recipes to take to the kitchen. For a bonus, you can print a shopping list to take to the store.

(PC-SIG Disk# 1210)

Special Requirements: *None.*
Author Registration: *$15.00*

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Food and Drink Preparation Also see *Health Management.*

Football Fun Run your football pool for the entire professional season! See *Gambling.*
(PC-SIG Disk# 747)

Football Pool Manager Are you in charge of the office football pool again? Take the pain and labor out of it this season with FOOTBALL POOL MANAGER. See *Gambling.*
(PC-SIG Disk# 882)

Football Pools See *Gambling.*

Footnotes See *Word Processor and Text Utilities.*

For Photographers Catalog for easy retrieval of up to 10 million photos! See *Photography.*
(PC-SIG Disk# 1164)

Fora A multi-user (17) chat bulletin board system (BBS) operating at 2400 baud. See *Bulletin Board Systems (BBS).*
(PC-SIG Disk# 948)

Foreign Language Hangman Norsoft FOREIGN LANGUAGE HANGMAN is an excellent educational program for learning Spanish, or for learning English for people who speak Spanish. While being educational, this program is very entertaining. See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk# 708)

Form 1040 See *Tax Preparation.*

Form Creation Programs

■ EZ-Forms Executive

Stop trying to satisfy your information needs by using someone else's idea of the "right" form. Make documents tailored to your specific requirements to answer your special questions.

You can print forms to fill out by hand, or to fill in before printing. Spreadsheet math functions automate numerical extensions such as multiple items/per item pricing and tax computation. Merge with information from a database and automatically insert dates and times as desired. Editing functions, such as word wrap, text centering, and automatic justification, help you make professional-looking forms, quickly and easily.

Useful for small businesses or organizations that need few copies or store all data electronically. Especially valuable as a forms development tool for designing and streamlining before committing to a large print run.

(PC-SIG Disk# 404)

Special Requirements: *640K RAM and a hard drive. Printer recommended.*

Author Registration: *$119.00*

User Comments: *"Very useful program for small firms. Has well written documentation."* *"Very good program."*

■ EZ-FORMS-LITE

EZ-FORMS LITE is a program that solves the major problem for any business that needs lots of forms. EZ-FORMS LITE is a powerful forms generation and management system that helps you create forms on your screen, print and store them, edit them later, and, if you choose, use your PC to fill them out. The program allows you to use your PC to fill out other pre-printed forms and lets you preview the output on your screen to prevent errors. The person who lays out big bucks to get a few thousand forms from a printer will find this program financially and aesthetically appealing.

With context-sensitive help screens, the program handles any IBM compatible printer, including the 24-pin and lasers. Extra fonts are available from the author (EZX) for lasers. Color controls are excellent, and forms may be sized up to 88 lines by 132 columns. When this program is used, you can be prevented from typing in the wrong part of a form. Form numbering is available and time and date can be generated at time of execution, vital ways to prevent employee theft at the order desk. You can make up all your own forms — the time needed is brief — or order disks full of additional forms from EZX and alter them to fit your needs. The program allows you to print up to 255 forms at a time. The on-disk manual gives you extensive, well-presented documentation.

(PC-SIG Disk# 1202)

Special Requirements: *320K RAM and a printer.*

Author Registration: *$29.00 or $49.00.*

■ Form Master

Questionnaires? Surveys? Order blanks? If you routinely make and use such standard forms, FORM MASTER is a versatile, powerful, and inexpensive shareware tool for creating, modifying, completing, and printing them. Once you create a form, you can fill it in on-screen and print it, or print it and fill it out manually. If you have pre-printed forms, they can be fed into the printer and the data fills the blanks. You can export FORM MASTER forms into other software.

FORM MASTER is easily configured to support most printers with features including boldface, underlining, italics, super- and subscripts, expanded or compressed text, overstrike, and others. Should problems develop in printer configuration, registered users can get telephone assistance. Documentation is straightforward and clearly written, and learning FORM MASTER is easy, with examples and four on-disk tutorial lessons.

(PC-SIG Disk# 1099)

Special Requirements: *None.*

Author Registration: *$20.00*

User Comments: *"Excellent program. A real time saver."*

■ Formgen

FORMGEN works like a wordprocessor with added graphics features useful for creating forms.

Horizontal and vertical variable thickness lines are among the most frequently used functions. You can easily mark and copy the contents, or move them to other areas in the document. You can print a form with options for pica (10 cpi) or elite (12 cpi). The wordprocessor has most standard functions plus easy access to reference help, and quick display of files. Call the operating system to load a secondary copy of DOS — this lets you copy files, format disks, and run other programs from within FORMGEN.

The program is easy to use and an effective tool for making forms with graphics limited to the combinations of thin and thick lines and two type fonts and sizes.

(PC-SIG Disk# 1097)

Special Requirements: *Printer.*
Author Registration: *$35.00*
User Comments: *"Easy to use and well documentated. Good on-line help."*

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Form Letters 100 ready-to-use form letters for business. Use any text editor or word processor to customize for your use. See *Writing and Composition Aids.*
(PC-SIG Disk# 388)

Form Master A versatile tool for the creation, modification, and printing of any kind of form you might need. See *Form Creation Programs.*
(PC-SIG Disk# 1099)

Format, FORMAT To format is to arrange information so it can be displayed or stored. For instance, wordprocessors let users format each page. FORMAT is a DOS command that lets you organize the magnetic storage area of a disk so your computer can store and find information on it.

Formgen FORMGEN is a form generator that works like a wordprocessor with added graphics features useful for creating forms. See *Form Creation Programs.*
(PC-SIG Disk# 1097)

FORTH Invented by Charles Moore in about 1970, Forth is a programming language considered to have very fast execution. For programs see *Programming, Forth.*

Forth Programming See *Programming, Forth.*

FORTRAN (FORmula TRANslator) A programming language developed by IBM in the 1950s designed to solve engineering and mathematical problems. For programs see *Programming, FORTRAN.*

FORTRAN Programming See *Programming, FORTRAN.*

Fortune Telling See *Astrology and Fortune Telling.*

Foursome Generator Calculates foursomes for golf tournament play for up to 500 players based upon the handicaps of each of the players such that all teams of four have even or almost even team handicaps. See *Sports Management.*
(PC-SIG Disk# 1174)

Fractals and Mathematic Based Graphics

■ Cell Systems

CELL SYSTEMS creates beautiful patterns that also have mathematical significance. The patterns simulate the growth processes of simple biological entities. The program has a library of patterns already installed, with room for many more. This program lets you create new growth patterns of your own, save them, re-run them, and edit them. Your new cell can die, flourish, create a mess, or make a beautiful pattern that can be stored on disk. View the parameters for the sample cells and edit them if you want a slightly different pattern. You can create the patterns on either a medium- or high-resolution monitor and can print them. An installation program configures

the program to fit your printer needs.
(PC-SIG Disk# 1109)
Special Requirements: *CGA.*
Author Registration: *$18.50*

■ Life Forms

LIFE FORMS is an enhanced version of the "Game of Life," developed by mathematician John Conway. The program creates a video pattern that evolves like biological cells, according to a certain growth rate. Many features have been added to Conway's simple game, including eight extra growth rules for producing whole new families of screen images.

LIFE FORMS is simple to use, with lots of on-screen help and self-explanatory menus. The "life forms" that you create can be stored, retrieved, edited, and deleted. More than 100 life patterns are supplied on the program disk, with room for 240 in all. You can "capture a specimen from the zoo," or design a life form according to your own specifications.

Control many factors that influence the growth cycle: complexity of development, species, pigmentation, habitat, and original seed shape. There is a library of seed patterns which have been specifically chosen for the interesting results that they tend to produce. Choose one of these, edit it or devise your own seed form. As your life form starts to grow, control how fast each growth step is displayed on the screen and even pause your life form's development.

(PC-SIG Disk# 802)
Special Requirements: *CGA.*
Author Registration: *$15.00*
User Comments: *"I took LIFEFORMS to class and used it as a teaching tool. It made a hit. Clever and fun."*
"Hours of entertainment. Marvelous color displays. Stimulating and educational."

■ Mandelbrot & Julia Set Generator

This disk adds additional patterns to the original program that lets you create detailed and colorful mathematical patterns called fractals. Patterns are based upon a recently developed part of mathematics called "fractal geometry," which creates images where each smaller part of the image has the same pattern as the whole part. With this program, you can create an unlimited amount of new images, change the colors of the images, and save the images to a disk file.

MANDELBROT is a comprehensive program that takes some time to create a new image, but once saved to disk the image can be displayed on the screen more quickly. It lets you create "Mandelbrot set" images and "Julia set" images. The Julia images are similar to the Mandelbrot images, but you need to input different numerical values to create the image. On-line help displays suggest numerical values for both Mandelbrot and Julia images. Sample images are already included, and the documentation has suggested readings for more information on Mandelbrot and Julia set images.

(PC-SIG Disk#'s 1076, 1241)
Special Requirements: *EGA or VGA.*
Author Registration: *$20.00*

■ Mandelbrot Magic

Fractal geometry has been used in the past to create images of many differing subjects. From three-dimensional pictures of landscapes to an accurate cross section of the heart, fractals are the way of the future.

MANDELBROT MAGIC generates color displays of the Mandelbrot Set, a famous group of mathematical structures also known as fractals. Fractal geometry is a complicated field in mathematics, but this program is easy to use and will automatically create the fractal slides according to your specifications.

With this program you can create a new slide, or recreate a slide from an already existing one. A set of fractal slides will display a portion of the former slide in greater detail. Generating a slide is an intensive computational task and can take from three to 16 hours, but an 8087 math coprocessor will reduce the generation time by a factor of 3. A 15-minute demonstration program is included.

(PC-SIG Disk# 841)
Special Requirements: *Hercules graphics.*
Author Registration: *$15.00*

■ *Mandelbrot ZoomLens*

MANDELBROT ZOOM LENS lets you create, view, and magnify a Mandelbrot fractal and demonstrate the unique nature of these complex mathematical patterns which are found in nature. As a fractal image is magnified, the smaller details will still look like the same fractal. The more a fractal is magnified, the more hours it takes to fill in all the details on the screen.

(PC-SIG Disk# 1326)

Special Requirements: *CGA.*
Author Registration: *$20.00*

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Free File A menu-driven data management system for those with little or no programming experience. See *Databases.*
(PC-SIG Disk# 521)

Freecalc A basic spreadsheet program for beginners with many helpful features such as macros, text editing, and coprocessor support. See *Spreadsheets.*
(PC-SIG Disk# 574)

Freequent Flyer For the business traveler, a menu-driven database of flight and travel info that helps you get the most of your frequent flyer bonuses. Airline, hotel, car rental, and other useful information! See *Flying and Navigation.*
(PC-SIG Disk#'s 1365, 1366, 1367)

Freeware A misnomer for shareware. The software known as shareware or freeware is not in fact free, but needs to be purchased from the author if the user enjoys the benefits of a shareware program.

Freeway A payroll and pension management system built expressly for the U.K. business place by U.K. authors. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk#'s 671, 672, 673)

Freeword An easy-to-run word processor with many functions including automatic formatting, adjustable cursor movement, search and replace, and block movement. Print in background so you can continue your work. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 1084)

French Verb Conjugator On-line help screens make learning French easy. You can display 15 tenses of verbs on-screen. Search function lets the computer help you. See *Language Study, Foreign.*
(PC-SIG Disk# 758)

French, Educational See *Language Study, Foreign.*

Frigate It's you and your one ship against an entire Soviet fleet. Can your wit and superior technology make the difference? An entertaining exercise in strategy. See *Games, Adventure and Text.*
(PC-SIG Disk# 1467)

Front End Technical menu-development system primarily for programmers. See *Menu Programs.*
(PC-SIG Disk# 1301)

Front Office, The Designed for direct sales businesses to track prospects, sales, orders, quotes and profits. See *Sales and Prospect Management.*
(PC-SIG Disk#'s 697, 698)

FRP Game Master Utility Take the manual labor out of playing Dungeons and Dragons. Everything that used to be done with paper, pencil, and dice is now done with the keyboard. See *Games, Adventure and Text.*
(PC-SIG Disk# 1063)

Fun With Letters and Words Colorful graphics and personalized scripts make it fun to learn reading and spelling. For children ages 2-5. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 1278)

Function Key Helper Make lists of various function keys for various programs and add or edit a function-key template. Included: Lotus 1-2-3, WordStar, WordPerfect, Multimate, PROCOMM, SuperCalc, RBBS, Turbo Lightning, and more. See *Utilities, Macro Programs.*
(PC-SIG Disk# 856)

Funky ToolBox FUNKY TOOLBOX contains a large number of utilities for BASIC programmers. See *Programming, BASIC.*
(PC-SIG Disk# 907)

Funnels and Buckets Educational game for children ages 5-11. Teaches addition, subtraction, multiplication, and division. Solve falling equations before they hit the bucket! See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 229)

Future Systems This is a book about systems and the possibilities of future designs in tomorrow's communication, computation, control and broadcasting systems, among others. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk#'s 1160, 1161)

FXmaster Use one menu to select all Epson FX-series fonts from keyboard or batch files. Convert WordStar files to ASCII and vice versa. Compute statistics for field lengths in a mail merge file. See *Printer Managers.*
(PC-SIG Disk# 1369)

FXPrint Change the setup of your Epson-FX or Brother printer without using any hassling Basic commands. See "Armada Utilities" listed under *Word Processor and Text Utilities.*

G

G.I.F.T.S. A database of great gift ideas that can be selected by many different categories such as price, sex, relationship, purpose, age, and others. See *Entertainment, General.*
(PC-SIG Disk# 876)

Galaxy You have a choice of menu or keyboard commands with this feature-packed wordprocessor, as well as a spelling checker and search and replace. Easy for beginners. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 765)

Gambling

■ Cambridge Thoroughbred Handicapper

CAMBRIDGE THOROUGHBRED HANDICAPPER attempts to predict a horse or dog's race performance by analyzing past performances in a consistent, scientific manner. It also gives you a strategy for betting on races based on your handicapping analysis.

The system blends sophistication and ease-of-use for the race fan who enjoys the sport but doesn't have hours to devote to handicapping. If you've never handicapped a race before, you'll find this informative. If you're an experienced handicapper, the data you collect is just as useful as the ratings themselves. Sharpens your own analytical thinking.

(PC-SIG Disk# 918)

Special Requirements: *None.*

Author Registration: *$20.00*

User Comments: *"CAMBRIDGE makes picking horses easy."*

■ College Football Pool

COLLEGE FOOTBALL POOL is designed to make football pool games easier to play/follow/bet each week.

A demonstration schedule is included. Pick the week you want, and all the games for that week will be displayed. Choose any fourteen games for the selection sheet. The object of the game is for each player to try to pick the most winners of the 14 weekly games. Selection sheets can then be printed showing all the players' choices.

After the games are completed, enter the winning teams and print a final report showing the number of games each player picked correctly. In the event of ties, the player who was the closest in guessing the total number of points scored in the last game on the selection sheet is declared the winner. Up to 300 players can be handled by this program.

(PC-SIG Disk# 892)

Special Requirements: *None.*

Author Registration: *$25.00*

■ Football Fun

FOOTBALL FUN (FFUN) is a complete office football pool management system — just what your office might need! It has the entire season schedule for professional teams, thus saving you the monotony of keying in all the team names every week when preparing weekly selection sheets. Just a few keystrokes are needed to make a weekly selection sheet.

Last year's schedule is on this disk for demonstration purposes, but you can order the current season from the author anytime after June 1. The new season schedule also includes any new revisions to the program. The schedule costs $10 every year.

The program is easy to operate. A data-entry screen makes it simple to enter team selections of each participant. The participants' names do not have to be keyed in every week if they are stored in the seasonal database.

You win if you pick the most games right. If there is a tie, total points scored in Monday night's game is used for a tiebreaker. Player standing reports are printed after Sunday games and Monday games.

Weekly results can be accumulated in a seasonal database which can be used to operate a separate pool for the whole season.

The program makes a playoff selection sheet that includes the four quarter final games, the two conference championships, and the Super Bowl.

(PC-SIG Disk# 747)

Special Requirements: *Two floppy drives and a printer.*

Author Registration: *None.*

■ Football Pool Manager

It's a great day, sports fans! Here's something you've needed for years.

FOOTBALL POOL MANAGER (FPM) makes running a football pool a snap. Whether the featured event at a private party or the regular office pool, FPM does all the tedious work. Enter the basic information and it handles everything else, from generating a picksheet to printing the final standings.

It has complete flexibility to handle any combination of college and pro games — up to 18 games and 90 participants in a single pool. All NFL teams are already entered, just indicate the opponents.

So, who do you like for next week?

(PC-SIG Disk# 882)

Special Requirements: *Printer.*
Author Registration: *$20.00*

■ NCAAPool

NCAAPOOL makes handling company pools for NCAA basketball a lot easier and less time consuming. Normally there are several people who would like to know their statistics after each round of games is played, and doing this may take hours of work. There is also the possibility of making a mistake in one of the records.

NCAAPOOL solves all that. All it needs are the first round team match-ups of the 64 basketball teams in the four divisions. You then enter the names of the pool players, and the choices of their teams they think will win in each of the rounds of games, until the final winner is reached. At any time afterwards you can enter the results of each round of the games, and immediately get a printout of the individual results for each pool player, showing which teams chosen won or lost. A summary report, showing the total winning teams each player guessed correctly, can then be sent to the screen, printer, or both.

(PC-SIG Disk# 1387)

Special Requirements: *None.*
Author Registration: *$15.00*

■ SportsBook

Want to be a bookie? Then fantasize with SPORTSBOOK. It's a bookie simulator that's entertaining and fun.

SPORTSBOOK, the menu-driven bookie emulator. If you want to make college and professional sports wagers and maintain records of those transactions, then SPORTSBOOK is for you.

The sports supported by SPORTSBOOK include NBA and NCAA basketball, hockey, and NFL, CFL, and NCAA football. SPORTSBOOK does all the necessary record keeping hardcopy generation and calculations required for a bookmaking operation. No documentation is provided, so you have to invest some time in learning and experimenting with the program before you become familiar with it.

(PC-SIG Disk# 1132)

Special Requirements: *None.*
Author Registration: *None.*

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Game Fun for All Quickly create crossword puzzles to solve on computer or print. Gamble in a Vegas casino, play LIAR'S POKER, and adventure through an evil castle. See *Games, Cards.*
(PC-SIG Disk# 1074)

Game Series 18 A collection of color graphics games for your library. Teach your children the ABC's, play football and knock down a brick wall from your PC! See *Games, Arcade.*
(PC-SIG Disk# 390)

Game Series 21 A grab-bag of games! Play fireman, be an air traffic controller, play PACMAN and QBERT, and fight off invading paratroopers! See *Games, Arcade.*
(PC-SIG Disk# 456)

Games Galore Puts you behind the controls of an 18 wheeler semi in BIG-RIG, a tank in GEMINI-2, a battery of weapons in NUKEWAR, and a WWI biplane in SOPWITH. See *Games, Arcade.*
(PC-SIG Disk# 1328)

Games, Adventure and Text

■ Adventure Addiction

A fistful of fun. Five great text adventures!

In UNDER THE ICE, you are in command of the U.S.S. Helldiver on patrol for German U-boats. A high-priority coded message comes from the Pentagon. A specially-equipped B-17 bomber has crashed near the North Pole. Onboard was a VIP with sensitive documents regarding the joint war effort between the U.S. and the Soviets. If this information falls into the wrong hands, we will lose the war. You must recover these documents before the Germans do, but that won't be easy; there is a Nazi agent aboard your sub and his instructions are to compromise and/or terminate your mission.

QUEST OF KUKULCAN is an Indiana Jones-type adventure. You are an American archaeologist in pursuit of the Lost City of Kukulcan; a fabulous city which many think exists only in legend. You, however, believe that it truly exists but all you have to guide you is an old, vague map of questionable pedigree. You set out to find it and who knows what you'll find on the way.

BRAMINAR is a fantasy adventure in which you are on the trail of the Evil Overlord. Your quest is simple: have your character reach level 20 or higher, find the Staff of Avatar AND defeat the Evil Overlord! If that weren't enough, the game is set at a fast pace and there are many obstacles which stand in your way. One more thing...beware of the Ugly Stick and the Plague.

In GYMNASIUM ADVENTURE, you have just finished a hard P.E. session at school and are taking a shower. After you've showered, you go to get your clothes and find them missing from the locker room. Your quest is to find all your clothes and get dressed, but don't let Mr. Mean catch you without your clothes or he'll suspend you from school.

The PALACE ADVENTURE is by the author of GYMNASIUM, and all of the commands are the same. You must rescue Penelope and get out alive. Watch out for the guards, they have instructions to kill first and ask questions later.

Have fun!

(PC-SIG Disk# 826)

Special Requirements: *None.*
Author Registration: *$15.00*

User Comments: *"Best combination of adventure programs I've ever seen!!" "My son enjoys this one. A great disk. BRAMINAR is a lot of fun." "Good collection of text adventures. Challenging and stimulating. Many hours of fun."*

■ Adventure Game Toolkit

Want to create your own text adventure games? Now, with the ADVENTURE GAME TOOLKIT (AGT) you can, and you don't need to know programming!

In text adventures, players assume the roles of characters in a story which they read. But unlike a book story, the reader is able to interact with the plot, go different directions, ask questions, and do things which may lead them to treasure or doom.

Using AGT, game enthusiasts can now transform their wildest fantasies into high-quality adventure games — and teachers and parents, with a little imagination, now have a wonderful tool for making child riveting games that can teach basic subjects, such as history, math, foreign langauges, vocabulary development, etc., in a fun and impactful way.

AGT can create complex worlds with up to 200 locations, 100 inanimate objects (swords, trees, cars, lasers, etc) and 100 animate objects (hobbits, orcs, famous persons, etc.). An AGT game can understand a 400-word vocabulary that can include complex (multiple actions) and function key macros for common commands for a polished result that conforms to the Infocom standard in adventure games so anyone can learn to play quickly.

AGT comes with complete instructions (100 page on-disk manual) and a sample mini-game that is walked through showing what can be created using AGT without requiring the game designer to have programming knowledge or experience. It also contains the source code files for the Colossal Cave adventure. This is an AGT version of the original game that was written by Crowther and Woods that was the first adventure game every written. It is a classic! The AGT files for this game can be played and enjoyed simply as great entertainment or as a platform for the AGT game designer to build upon and/or learn from.

(PC-SIG Disk#'s 1231, 1232)

Special Requirements: *384K RAM and two floppy drives.*
Author Registration: *$20.00 to $50.00.*
➤ ***ASP members.***

■ Adventureware

A fistful of text adventure games, ranging from a mystery adventure, to an episode of espionage, to a tale of horror. If you enjoy the challenge of puzzles and exploring the unknown, then you will be occupied for days with this quintet:

CRIME: Solve a crime and be a hero! You find yourself embattled in a world where the streets are not safe. Keep your back to the wall and look for allies!

HAUNTED MISSION: While on his way to a party, the world-famous Pumpkin Man was shanghaied by the evil Lady Winslow. Search the neighborhood, rescue him, and take him to the party.

ISLAND OF MYSTERY: Explore a tiny island in the middle of a vast ocean in search of 11 treasures. Locate each and then find the secret place where they must be stored.

THE NUCLEAR SUBMARINE ADVENTURE: To add to the growing threat of nuclear proliferation, the USS Nautilus has been reactivated and totally refitted with the most modern and lethal equipment. A new crewman aboard the Nautilus, you have received extensive training but experience is still the best teacher, and you will learn much more during your stay onboard — if you survive!

TERROR IN THE ICE CAVERNS: The Soviets are developing a new death laser in the remote, frigid caves of Antarctica. Your mission (should you choose to accept it), is to enter the caves and the Soviet complex, locate the laser, steal the plans for it, and then return to the surface to be picked up by a helicopter. Where are your mittens?

(PC-SIG Disk# 453)

Special Requirements: *None.*

Author Registration: *None.*

■ Basketball Simulation

BASKETBALL is a text-based simulation of basketball — not an interactive computer game. Once you have chosen the teams and players, the game begins and you are a spectator.

As play proceeds, the radio announcer's dialogue rolls across the screen. If you enjoy listening to games on the radio, you will enjoy this game! Rather than trying to capture the physical representation of basketball on the PC, this program effectively brings the thrill of the game to you the same way the radio sports announcer does.

The program comes with data for six teams: the Celtics, the Lakers, the Rockets, the '76ers, and the East and West All-Star teams. Play games with any combination of these teams or create teams of your own.

(PC-SIG Disk# 946)

Special Requirements: *None.*

Author Registration: *None.*

■ Battle Ground

BATTLE GROUND is a World War II field-combat game/simulator for two players.

Each player is the general of either the U.S. or German army commanding 16 privates with various weapons, two medics, one sergeant, and a major. These men have varying abilities that often come in handy while engaging in hand-to-hand combat. Each soldier carries hand grenades, adding even greater realism to this war simulation.

At the beginning of the game, the players select the battlefield on which to compete. There are five different battlefields to choose from. As the battle begins, you start in separate corners and come out fighting. All troops are represented by small squares. Both players take turns moving, firing, and whatever other strategy they think of. A great feature is each player can do as much as he wants on any one turn, adding even more realism to the game of war.

(PC-SIG Disk# 1090)

Special Requirements: *CGA.*

Author Registration: *$29.95*

■ Beyond the Titanic

Lucky you! BEYOND THE TITANIC begins as you find yourself aboard the Titanic just seconds before she sinks!

Your goal is to survive and get back home. On the journey, you'll discover a long-forgotten secret under the sea, travel to the Earth's future, get chased by a three-armed monster and more!!

If you've played any of Infocom's games, you'll notice the similarity in style. To add to the realism, a 16-color display and sound effects are used throughout the game.

(PC-SIG Disk# 832)

Special Requirements: *None.*
Author Registration: *$5.00*

User Comments: *"It's equal or better than most of the expensive adventure games. Great!" "BEYOND THE TITANIC is a fun game." "BEYOND THE TITANIC is as sophisticated as the commercial adventure games by Infocom. It understands complete sentences and lets you save your position. Great stuff!"*

■ Cavequest

A graphics adventure game, in the same vein as Epyx's Temple of Aphsai. You start as an immortal, choose your new mortal attributes, and travel to Earth to seek out fame, fortune, and excitement.

This is a rich and complex adventure with hundreds of hours of first-class entertainment in store for you. Onward!

(PC-SIG Disk# 451)

Special Requirements: *CGA.*
Author Registration: *$35.00*

■ Dark Continent

A text adventure game that takes you to the heart of Africa. In DARK CONTINENT, you are on a safari expedition in search of King Solomon's legendary diamond. Unfortunately, your native followers have mutinied and left you lost in the wilderness without a map. Not only must you find the diamond, but also, your way back to England. (And try not to get eaten by wildlife on the way!)

(PC-SIG Disk# 967)

Special Requirements: *None.*
Author Registration: *$20.00*

■ DNDBBS

DUNGEONS AND DRAGONS BULLETIN BOARD SYSTEM creates an entire new world on your computer and lets people call in through a modem and play DNDBBS via the telephone lines.

DNDBBS can operate by itself on the modem, as a part of another bulletin board system, or as a single-user game on the computer. Instructions are included for making this program an on-line game in a door of an RBBS. DNDBBS already has a world created for people to play in, but the system is expandable. You, as dungeon master, can edit and create more scenarios, rooms, treasures, and monsters, just like the game itself.

Players who call in enter their name and password, and if calling for the first time they can create their own character. Character classes include fighter, magic user, cleric, thief, ranger, paladin, druid, and dungeon master (you, of course). Assistant dungeon masters are allowed to help you manage the system. Before players begin the adventure, some welcome and notice files are displayed on the screen to introduce the game. Players can then explore, kill monsters, cast spells, find treasure, etc. When a player character dies, he is resurrected by the high priests in the clerical sanctuary, and can then enter the adventure again, but with decreased character abilities. As dungeon master, you are given some additional powers, such as the ability to teleport any player to any room while the user is on-line, edit or delete users, make a player invisible (thus invulnerable to all monster attacks), and configure log-on and general system parameters for the game.

DNDBBS not only makes it much easier to manage and play a fantasy role-playing game, but also can be an extension of your own imagination.

(PC-SIG Disk# 1131)

Special Requirements: *384K RAM and a modem.*
Author Registration: *$15.00*

■ Dracula In London

DRACULA IN LONDON is a spell-binding adventure game with outstanding graphics for one to six players.

The plot of DRACULA IN LONDON is to track down the bloodthirsty vampire and put an end to his evil menace. Each player assumes the role of one of six vampire hunters: Van Helsing — renowned metaphysician, Mina Harker — school mistress, Jonathan Harker — solicitor's clerk, Dr. Seward — head of a lunatic asylum, Arthur Holmwood — son of Lord Godalming, and Quincy Morris — wealthy young Texan. Provisions include sacred weapons, equipment, and animals.

Full of surprises and fast moving, DRACULA will provide you hours of excitement. Be sure to wear your garlic and bring your own stake.

(PC-SIG Disk# 1220)

Special Requirements: *CGA.*
Author Registration: *$6.00*

■ DUNGEON

Grab your torch and sword and step into the DUNGEON, a game in which you must explore a maze of pathways leading into the bowels of the earth, while fighting monsters, seeking treasure, and hoping to find your way back out alive!

Similar to HACK (PC SIG Disk# 1000), symbols and letters are used to represent you, the maze and its denizens, so you don't need a graphics card to play. But don't let its simple graphics fool you. This is an incredibly complex and intriguing game that can trap you for long hours before you can battle free.

You use the curser keys to move and the function keys to cast 40 different spells, such as: cast fireballs at monsters, teleport, pass through walls, find traps, transmute the air into gold, summon a demon, and more — gadzooks! You start off with six character attributes, which determine your capabilities during the game. As you gain experience, you will be able to cast more spells, and live longer when fighting with monsters. As you explore each dungeon level, a map is displayed on the screen, showing your position among the many hallways. At any time on-line help is available, giving a summary of all the keys and their functions. Age level: 10 to adult.

(PC-SIG Disk# 1437)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Dungeons of the Necromancer's Domain

DND is a computer fantasy role-playing game inspired by Dungeons and Dragons — the "grandaddy" of all the computer games that was developed and played on mainframe computers back in the '60s.

Different from most games, it uses text characters in the upper-right corner of the screen, instead of graphics. Become a wizard and fight evil monsters and ghosts with your growing power. Or become a fighter and go head-to-head with mighty dragons. Or a cleric and try to dispel the evil spirits of the dungeons. The object is to stay alive and venture deeper and deeper into the depths of the dungeons. You have five different dungeons to choose from. No matter which character you choose to be, this is a game that will test all of your game playing skills.

(PC-SIG Disk# 567)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Eamon

Become a character in a land of adventure and do great and marvelous deeds! In this fantasy role-playing game, your first goal is to stay alive while getting rich during your questing.

When you enter these different universes, you are no longer John (or Jane) Smith — a quiet, mild-mannered computer hobbyist. Instead, you are, TA-DAH!, in the center of a tale of adventure — fighting orcs, trolls, dragons, knights, and mages with an arsenal of weapons and terrible magic.

An entire series of adventures await you, starting with THE MAIN HALL and including ICE CAVE — sagas with all the appropriate monsters and traps. The challenges are difficult, but not impossible to survive, and will keep you on the edge of your chair. The monsters are very mean and give up their lives to stop you from getting any further in your quest!

(PC-SIG Disk#'s 296, 297, 1038, 1039)

Special Requirements: *None.*
Author Registration: *$5.95*

■ Facing the Empire

If you like strategic war gaming, then FACING THE EMPIRE might be right up your intergalactic alley! Not an arcade game designed around speed, flashy graphics, and high-speed joystick jockeying, FACING THE EMPIRE is more like a strategic board game - oriented toward reasoning, planning and logistics.

As a member of the Lyran Stellar Federation, you must prepare your fleets and probes for deployment and battle. Then you must seek out the seven randomly placed Morte stars hidden in the sixty-four stars of the Lyran periphery. You can accumulate points through destruction of Morte ship groups, bases, and their invasion headquarters. All this must be accomplished while they're trying to get you first!

(PC-SIG Disk# 1075)

Special Requirements: *None.*
Author Registration: *$34.95*

■ FallThru

You and up to two other players stand only half a chance of making it home alive in this text adventure, called FALLTHRU!

You don't know how you got to this strange place, but you quickly discover that Faland is very large, comprising millions of square miles (all visitable) of farms, rangeland, forests, deserts, mountains, etc. Much of it is inhabited by dangerous wild animals, renegades, warriors, and demons.

You and your fellow players must find your way through the trackless wilderness, while quickly learning to recognize friend and foe, earning a living, and defending yourself by fist and weapon. And along the way you must gather information and solve various riddles and puzzles by talking to shop keepers, strangers, warriors, inn keepers, etc., and by exploring the many settlements, dark and treacherous caverns, catacombs, mines, castles, and ruins scattered throughout this vast territory.

FALLTHRU recognizes several hundred words by which you can set your course, pick up objects, buy and sell things, fight, hunt, shoot, and speak to the odd characters you and your companions will meet as you try to go home! Age level: 12 to adult.

(PC-SIG Disk# 1389)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Frigate

FRIGATE is a strategy game which pits you and your ship against a Soviet fleet of vessels. The object is to destroy as many of the opposing ships as possible while avoiding destruction of your own.

Points are awarded for destroying your enemy while avoiding their missiles. Your ship, a nuclear-powered guided missile frigate, has many advantages over its Soviet counterparts but you are outnumbered by a large margin. Operating in an area of 1,000,000 square miles, you have radar, sonar, jamming equipment, anti-missile capabilities and three types of ordinance at your disposal.

FRIGATE is played from three on-screen windows — a main window which gives you an overview of your ship's status, an options window which changes in accordance with the commands you select, and a command window from which you issue those commands. Your ship's status and position, and the location of the enemy are updated frequently. FRIGATE is a challenging and stimulating game that will provide many, many hours of entertainment.

(PC-SIG Disk# 1467)

Special Requirements: *None.*
Author Registration: *None.*

■ FRP Game Master Utility

The FRP GAME MASTER UTILITY is set up to be generally compatible with Advanced Dungeons and Dragons and its many variants. FRP is very flexible in its structure, and sacrifices some compatibility to maintain flexibility.

The utilities FRP has take the manual labor out of playing Dungeons and Dragons. Everything done with paper, pen, and dice can now be done with the keyboard. These utilities are compatible with Advanced Dungeons and Dragons.

DICE ROLLING UTILITY — critical hits, fumbles, double damage, D100, D20, D12, D10, D8, D6, D4, any number of dice with modifiers, display monster information, roll monster hit points, and edit hit points.

RANDOM ENCOUNTERS UTILITY — generates random encounters for 10 different areas, each with different probabilities.

RANDOM TREASURE UTILITY — treasure types A-Z, gem value, jewel value, edit, and view treasure data.

GAME PARAMETER UTILITY — lets you alter critical hit, fumble, double damage, and encounter probabilities. The timer can be set and combat die is selectable for special damage tables (except fumble).

(PC-SIG Disk# 1063)

Special Requirements: *None.*
Author Registration: *$20.00*
User Comments: *"Speaking as a FRP game player and master, I can tell you this program is great."*

■ GameScape, Space Slug, Marooned & Ringwielder

MAROONED AGAIN is a logical text adventure game. The basic plot: You are marooned on an alien planet with a broken spaceship and a bunch of retarded clones who can only respond to two-word commands. There is hope, however! Also on this planet is an alien spaceship that can be made to work with some minor repairs. All you have to do is use the clones to fix the alien ship and take off. Simple.

GIANT SPACE SLUG is the classic arcade game of WORMS with nothing special added — except blinding speed. The speed level is adjustable from very easy to absolutely impossible. Excellent for building eye-hand coordination, especially among children, it uses all four directions of the screen and allows for either joystick or keyboard control.

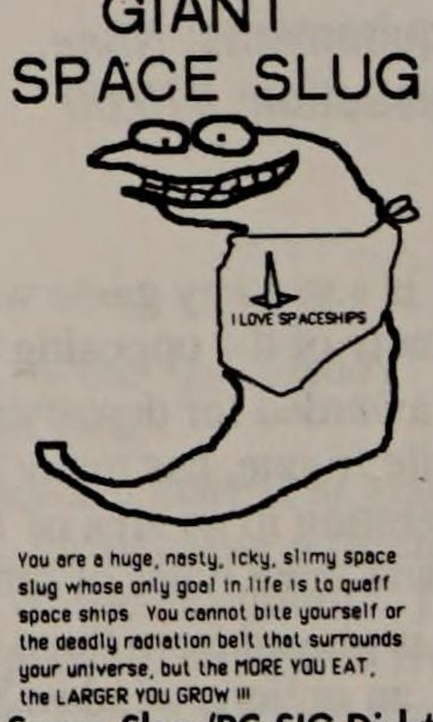
RINGWIELDER is a role-playing adventure game much the same as Dungeons and Dragons. You are aboard the starship Orion, designed to transport millions of people to planets across the universe. The Orion was built using the principles of science and of Psycho-Manipulative Energy (PME), a force that works like the magic of legends. An accident occurred during its launch and all animal and plant life was mutated. The colonists and crew were turned into characters from literature and imagination. They awaken with their old memories erased and new ones in their place, facing a starship defense system that is definitely not friendly.

You, a survivor, will use science and the incredible "magical" forces of PME to defend yourself and the people who rely on you to protect them. You must use logic, wits, and courage just to survive from day to day.

GAMESCAPE is an adventure interpreter that turns an adventure database that you create into a ready-to-run game. While the disk access takes a tiny bit longer than a totally memory-resident system, it allows you to write adventure games limited only by the size of your disk!

(PC-SIG Disk# 1293)

Special Requirements: *None.*
Author Registration: *$35.00 to 59.00.*



Giant Space Slug (PC-SIG Disk# 1293)

■ Golden Wombat of Destiny

Your quest is to discover the Forbidden City of the Great Lost Empire and unearth the mysteries it holds. Do you have a prayer of succeeding?

From the author:

SCORE: Much as in life, there is no scoring in The Golden Wombat.

THE POINT: The point of THE GOLDEN WOMBAT OF DESTINY is destiny, itself. Obviously. You'll know when you've found it. Possibly.

What do you think?

This text adventure game can handle full-sentence commands and has a large vocabulary of verbs. CGA is required to customize the screen presentation and text.

(PC-SIG Disk# 678)

Special Requirements: *CGA.*
Author Registration: *None.*
User Comments: *"My first game disk and I think it's great." "Addictive. Challenging and fun."*

■ Hack Keys

The keyboard mapper HACKKEYS and its accompanying database are helpful tools for the Hack (PC-SIG Disk# 452) game enthusiast.

Hack is a complicated Dungeons and Dragons game with many rules, weapons, and monsters to memorize. The Hack database is a Norton Guides on-line reference for all the complicated details of the game and even has some helpful hints. This saves endless paper shuffling when you encounter an obscure monster or potion. It should be noted that Norton Guides, a database that lets you create your own help files, is required for the database.

Hack requires keyboard input to move from dungeon to dungeon at the different levels. Unfortunately since HACK was developed on UNIX, obscure keys like h,j, or k are used to move around the screen. Most PC users find these keys awkward to use. HACKKEYS is a RAM-resident program that alleviates this problem and lets you use the arrow keys.

(PC-SIG Disk# 1417)

Special Requirements: *Norton Guides for Hack database.*

Author Registration: *None.*

■ Hack, The Amulet of Yendor

A Dungeons and Dragons-type text adventure from the Stichting Mathematis Centrum in Amsterdam and converted to MS-DOS by Don Kneller.

Played on more than 26 levels against slavering monsters, master villains, and very powerful magic, your job is to survive and prosper using all the skill you can muster. Play as an explorer, warrior, magician, tourist, knight, or a caveman with all their associated strength, knowledge, and powers.

This is a bonanza for the adventure-addicted enthusiast who loves to hack and slash. Unsheath your sword, grab your amulet, and follow me!

(PC-SIG Disk# 452)

Special Requirements: *None.*

Author Registration: *None.*

User Comments: *"Fun. Entertaining. Good manual. Not too hard for beginners." "I'd like to play AMULET OF YENDOR but my neighbors won't stop playing it. For adventure devotees, this is great."*

■ Hogbear Adventure Game

The next time you are walking, hear laughter, and notice a nearby mansion, run for your life. If the HOGBEAR lures you in, you have to face him, a vampire, blue devils, killer bees, an ogre, a bear, pecking falcons, and other perils.

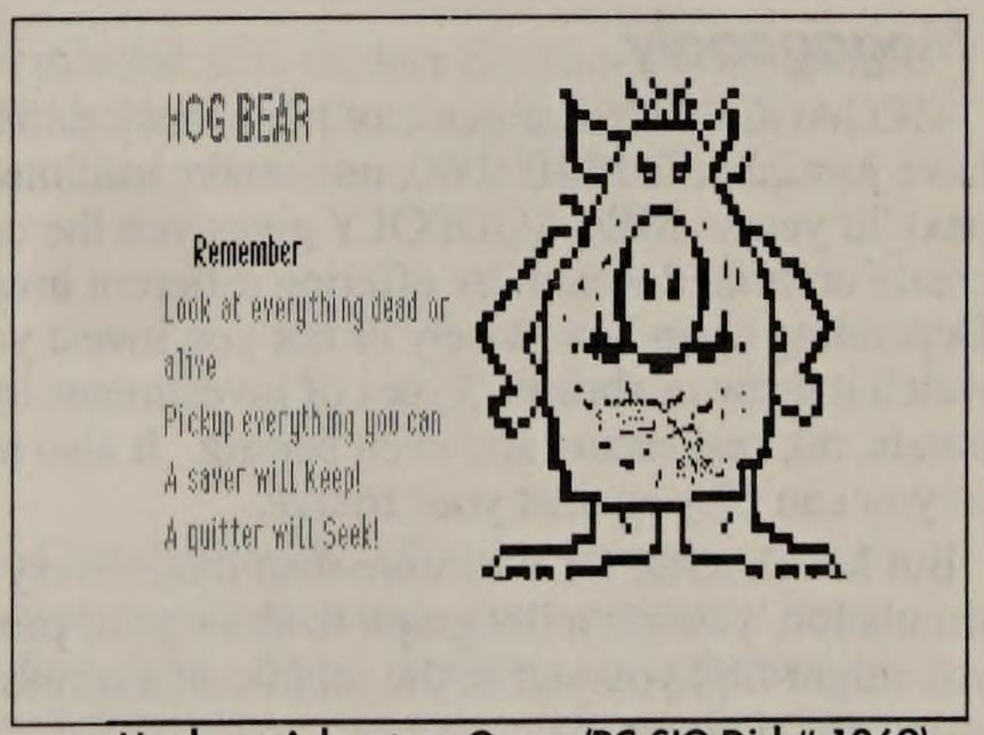
If you are swift, wiser than most, and persistent, you might even overcome the snake and spider as you roam about the huge mansion. As in life, some games are unwinnable. But there's hope. This text adventure/graphics game moves quickly when you learn the knack of searching and gathering the tools and weapons you need. Otherwise, you lurch about from room to darkened room, stumbling toward certain doom in an obscure mansion filled with deadly surprises.

An update of the classic game CASTLE, HOGBEAR is fun for all ages. It runs on both color and monochrome systems.

(PC-SIG Disk# 1269)

Special Requirements: *None.*

Author Registration: *$10.00*



Hogbear Adventure Game (PC-SIG Disk# 1269)

■ Kingdom of Kroz

In KINGDOM OF KROZ, you are in search of a priceless amulet that lies somewhere within the mystical kingdom. Be careful, there are mysterious rooms and vicious monsters waiting for you. You are armed only with a whip and your wits.

As the intrepid explorer, you will venture through 25 unique levels of perils and treasures. In this combination game of arcade action, strategy and adventure, each level is patrolled by as many as 1000 monsters, all with a taste for your blood. 16-color graphics and sound effects add reality as you negotiate lava, rivers, earthquakes, pits, forbidden forests, and more.

Three skill levels and a random playfield generator insure that no two games will be alike.

(PC-SIG Disk# 832)

Special Requirements: *CGA.*
Author Registration: *$8.00*

User Comments: *"KINGDOM OF KROZ is the best of all." "Great stuff!"*

■ Landing Party

Captain!! The energy crystals that power our life-support systems are failing! We need to locate new ones before we all die! You'll have to count on your crew, now. Let's hope you chose them well.

Your favorite movie stars, historical figures, friends, and relatives can become characters in this text adventure game if you choose them before you become captain. You must then deal with an assortment of monsters from the planet's surface before you can get those energy crystals you need so desperately. LANDING PARTY is menu-driven for ease of play. Individual games are short and different each time.

Hurry, Captain! The air...I...I can't breathe.....

(PC-SIG Disk# 604)

Special Requirements: *None.*
Author Registration: *$10.00*

■ McMurphy's Mansion

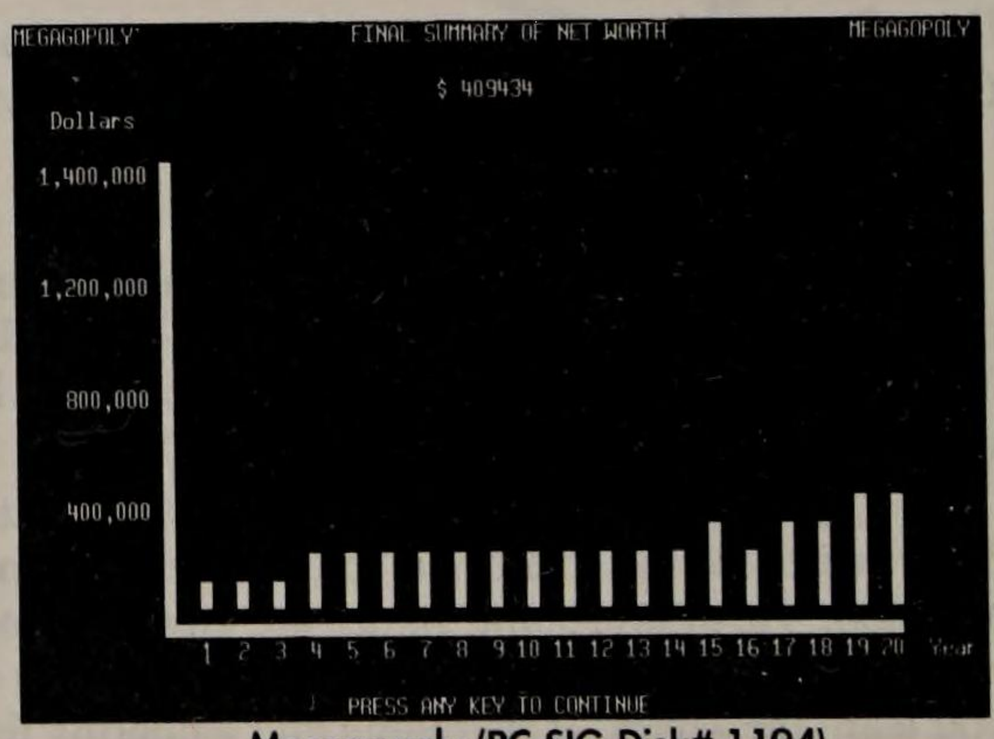
MCMURPHY'S MANSION is a text adventure game that begins when your Uncle McMurphy dies and leaves you his fortune. Unfortunately, the money is hidden somewhere on his estate. The object of the game is to find the money, using various clues and objects. Both a map and inventory list are displayed on the screen, and you can save at any time.

(PC-SIG Disk# 1073)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Megagopoly

MEGAGOPOLY is a game of high finance. The scenario: you have just inherited $100,000, now make millions more in the next 20 years. MEGAGOPOLY gives you the opportunity to create unlimited wealth by offering different investments. Depending upon how wisely or not you invest your money, you watch it grow or shrink. Types of investments include stocks, bonds, oil, real estate, and even betting. It also tracks your score so you can play against your friends.



Megagopoly (PC-SIG Disk# 1194)

But MEGAGOPOLY is more than that. Every five years of the simulation, you get a bar graph to show your progress down the road to wealth. But don't get too complacent — you might find yourself in the middle of a recession, or trying to make out in the world of runaway inflation.

(PC-SIG Disk# 1194)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Mix It Up

If you're in a gaming mood, here are four great entertainment programs in our library.

NEVADA POKER MACHINE is a simple-to-play, one-player poker game in which you may discard one to five unwanted cards of the cards dealt to you. The payoff odds are shown at the top right corner of the screen, and the winnings are shown at the bottom. If you've ever played a poker machine in Las Vegas or Atlantic City, NEVADA POKER MACHINE will be very familiar to you.

If poker is not your cup of tea, PRO LOTTO is designed to help you win lotteries ranging from a 6/15 through a 6/52 format. PRO LOTTO lets you store all the past numbers you have played and all past winning numbers. When choosing a lottery number you can put in your own number or a number produced by random generation. With PRO LOTTO your computer can also generate a number based upon the past record of winning lottery numbers.

PRO LOTTO can also produce a graphic screen showing what numbers are chosen most often, and can find the twelve most popular numbers for both you and your state's numbers. The program will print out the numbers you have chosen and the winning numbers from previous games. PRO LOTTO can show the money you have spent on the lottery and the odds of winning, and can look for all the matches you have made with the lottery for both matching and non-matching dates.

For those more analytical in their entertainment pleasures, and for those people a text-adventure is more to their liking, MUTANT INVASION is for you. This game puts you inside a science-fiction adventure in the year 2000. You're within a dome that covers the city to protect it from the firesky at nighttime. You can no longer hear the screams of the Outsiders, but you know they are very near. The atmospheric radiation storms are slowly quieting. Although most of the oceanic disturbances have run their course, tidal waves, typhoons, and minor hurricanes occasionally come to claim a few more lives.

You are one of the survivors from the last war. But no one really knows what happened since all the radios, televisions, and telephones went silent when the sky began to burn. The Outsiders, as you can guess, are not human. Most people call them Mutants. They have more or less become used to living outside the city dome, out in the Burn. But there's no food or water fit for consumption, even for them. That's why they're coming again now. A few of the mutants have found a way into the dome. Do you feel ready to stop them? You must find their secret entrance and seal it off.

If you're more of a mystery fan than a sci-fi fan, the second adventure game is for you. INTERCEPT starts with you on the street in front of a car and a phone booth. If you look closely at your possessions, you see you have an ID card (not for buying alcohol) and a watch. Now, if you type in the correct command, you can get into the car. Once you're inside the car, what do you do? Get out, go into the phone booth, call your friend to find out how to start the car? You'll have to discover what to do on your own.

(PC-SIG Disk# 911)

Special Requirements: *None.*

Author Registration: *$2.00 for POKER and $10.00 for PRO LOTTO.*

User Comments: *"Lotto and Poker very good." "MUTANT AND INTERCEPT take a little time to learn, but are worth it. POKER is quite good and entertaining. PRO LOTTO is great. It sure can't hurt your chances of winning."*

■ Nebula

You are in a spaceship exploring the Orion Nebula for NASA. Your mission is to explore the three closest planets to your spaceship and collect one animal, one vegetable, and one mineral. How will you be able to tell? If you encounter an intelligent life form, how will you know? NASA has instructed you to capture it alive. Good luck!

(PC-SIG Disk# 967)

Special Requirements: *None.*

Author Registration: *$20.00*

■ NETHACK: An Adventure Game

NETHACK is a huge Dungeons & Dragons-type adventure game of 20-plus levels, 150-plus rooms, and countless corridors. Dangers abound in this game. Besides a huge inventory of monsters, there are many traps awaiting the unwary. Also, many of the treasures you find (and you find plenty if you live long enough) turn out to be very hazardous to your health. In fact, if you are an average beginning player, we can safely predict that you will probably not get past level three during the first 10 games you play (unless you happen to fall through a trap door).

Expanded features include: new character classes and weapons, armor weights, new tools, polymorph self spell (in the magic library), rockmoles and Keystone Kops who throw cream pies (in the caverns), squeeky board and magic traps, fountains, and magic markers.

(PC-SIG Disk# 1000)

Special Requirements: *512K RAM and a hard drive.*

Author Registration: *None.*

■ Nirvana

When you enter this world of Wimsey, an incredible interactive fantasy awaits you. You will explore uncharted territory, solve ingenious puzzles, and talk to fascinating and sometimes deadly characters. Your quest: Destroy the Ice Maiden, Nirvana, and end the monthly disappearance of young men from the village.

Nirvana can only be destroyed by ringing a crystal bell. You must find the bell, enter her dark castle and destroy her. Otherwise, a fate worse than death awaits you. Here is a good thinking person's game with a vocabulary of more than 1000 words you can use when speaking to the characters you meet.

This program can also be used as a door on some bulletin board services. Check your BBS software to see if it has this capability.

(PC-SIG Disk# 1281)

Special Requirements: *None.*
Author Registration: *None.*

■ Quantoids of Nebulous IV

To the Spaceport! If we don't hunt these madmen down, they'll destroy life as we know it today!

We must fight together and track down the QUANTOIDS OF NEBULOUS IV!!

You find yourself looking out the cockpit of your spacecraft while controlling ship maneuvers, varying your speed and firing at the enemy ships, filled with those nefarious bean-counters intent on enslaving us!

Look out! They have COMPUTERS!!

(PC-SIG Disk# 749)

Special Requirements: *CGA.*
Author Registration: *$25.00*

■ Ranadinn

RANADINN is a text-intensive adventure game with simple graphics that pits you against an evil magician and his hordes of evil creatures. As you explore the plains, forests, mountains, and coastlines of each of four islands, you discover various towns and castles where you must journey up dank streets, through sinister hallways and enter forbidding rooms. You will confront guards, sailors, fighters, wizards, clerics, nobles, common people and a variety of nasty monsters. Some characters you encounter will be quite hostile and ready to attack on sight.

At the town you can buy or sell weapons and armor and purchase food and other supplies. In your exploration of the islands and various cities, you will find useful objects to help you in your quest, such as scrolls to cast magic spells. You can move your character with the cursor pad, and a few other keys activate special commands. Your screen is divided into three parts: the left side shows a map of your location, the right side shows your character statistics, and the bottom line displays anything said to you by the denizens you encounter. Age level: 12 to adult.

(PC-SIG Disk# 1350)

Special Requirements: *CGA.*
Author Registration: *$5.00 to $10.00.*

■ Red Planet

The first manned expedition to Mars occurred in the year 2075. A lone astronaut, Captain Maltwee, successfully landed on the Red Planet and discovered that an advanced civilization had flourished there for thousands of years. Recent global wars had decimated the inhabitants, leaving but a few isolated bands of Martians intact. Through radio messages from Maltwee, the Earth Federation learned that he had gained the confidence of a religious order who inhabited the ancient city of Aukbaa. Maltwee soon learned that this order had collected the wealth of the old rulers and had hidden it in a secret underground vault. His last message to Earth indicated that he had discovered the secret vault and planned to steal the treasure.

It is now two years later. You have been selected by the Federation to travel to the Red Planet. Your mission is to find Captain Maltwee and return with the treasures of Aukbaa, to Earth.

(PC-SIG Disk# 1073)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Secret Quest 2010

SECRET QUEST 2010 is a graphic/text mystery that takes place aboard a starship in orbit around the Earth. You and a friend have been on a trip through space and are, just now, returning home. You wake up on the morning of your return and find that your friend is missing! You start searching the ship and begin to discover things in the process. Be careful! There are many traps for the unwary.

(PC-SIG Disk# 633)

Special Requirements: *CGA, two floppy drives, and a version of BASIC.*
Author Registration: *None.*

■ Sleuth

This is an interactive text game you can populate with your friends, relatives, and neighbors. As you begin a game of SLEUTH, a murder has just been committed!

You must explore the house, question the houseguests for alibis, and locate both the weapon and the scene of the murder. The challenge is to solve the crime, gather all of the suspects together and accuse the guilty party — before the killer becomes suspicious and eliminates YOU!

This fascinating crime-solving game works on a monochrome monitor, and needs only the keyboard for input.

And the killer is . . .

(PC-SIG Disk# 694)

Special Requirements: *None.*
Author Registration: *$15.00*

User Comments: *"Worth the effort to master." "Lots of suspense. Time limits set by killer chasing you keeps you alert." "Really great game that keeps me at the computer for hours." "My favorite program."*

■ Super Nova

SUPERNOVA is an interactive text adventure set in the future. As the dauntless adventurer, you will partake in an epic story that spans a galaxy and gives you the chance to save a civilization from an exploding star.

You begin the game on a remote mining planet with little to look forward to except another back-breaking day in the mines. From here on out, you're on your own!

A 16-color display keeps you abreast of your injuries, hunger and thirst levels, sickness, and weariness, and displays necessary diagrams and signs. Sound effects are used throughout the game and over 1000 words are in the vocabulary. Included is a nice touch — a "clue" function when you are well and truly stuck.

Now, if you're going to save a civilization, you'd better get started!

(PC-SIG Disk# 952)

Special Requirements: *None.*
Author Registration: *$10.00*

User Comments: *"SUPER NOVA has sound, color, action, and great adventure. Everything I wanted."*

■ Time Traveler

You begin this text adventure in the Stanford University lecture hall in the year 2285. First, you must find the fabled Darnoc Time Machine. Then hurry back to the past to find the Allaw Allaw Plant needed to save all civilization. Remember, you must be both smart and alert. Travel to the beaches of Normandy on D-Day. Visit revolutionary Philadelphia, a mine, Sherwood Forest, the Egyptian pyramids, and an ancient jungle. If you overcome the brontosaurus and directional problems and other threats, you might save mankind. Remember that you alone have the burden of saving the world, one mistake and life on Earth as we know it will cease to exist.

(PC-SIG Disk# 1075)

Special Requirements: *None.*
Author Registration: *$34.95*

■ World Generator

WORLD GENERATOR is a solar system making utility for science fiction and role-playing games.

It produces solar systems in which each player takes on the persona of a human or alien of the far future, in a universe controlled by a referee. WORLD GENERATOR is similar to Dungeons and Dragons with spaceships.

You can quickly generate, store, and edit designs for individual planets and entire solar systems. WORLD GENERATOR also produces maps of planets.

WORLD GENERATOR is menu-driven and provides on-line help displays as well as a tutorial and a rolling demonstration to help you get started. Each sector of the universe can have up to 100 solar systems and each solar system is allocated a star and up to 17 planets, asteroid belts, dust clouds, or secondary stars.

(PC-SIG Disk# 1133)

Special Requirements: *CGA.*
Author Registration: *$10.00*

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Games, Arcade

■ Adventures of Captain Comic

THE ADVENTURES OF CAPT. COMIC is a fast-moving arcade game with high-quality color graphics. The Captain's job, and you know he will accept it, is to recover three treasures of the planet Omsoc that were stolen and hidden on the remote world of Tambi.

Along the way he must face many dangers, including: dive-bombing birds, bugs, fireballs, beachballs, spinners, glow globes, blind toads, killer bees, sparks, atoms, saucers, and the dreaded space pollen.

But our hero is not one to go into battle unarmed. He carries a blaster to blow away any meanies that attack, a shield to protect him from their touch (temporarily), and the uncanny ability to jump amazing distances. He also finds many items that can help in his mission: keys, lanterns, corkscrews, boots, and cans of Blastola Cola.

If you decide to go adventuring with the Captain, all you need bring are quick reflexes, a good eye for detail and your ability to solve problems on the fly. Age level: 7-adult.

(PC-SIG Disk# 1450)

Special Requirements: *EGA with 256K of video RAM.*
Author Registration: *$10.00 to $20.00.*

■ Arcade Series 3

A really fine collection of colorful arcade games. If you can't find a game to suit you here, perhaps you're just not a game player. This collection of games for the color tube will catch and hold your attention for hours. They work well on the PCjr also.

(PC-SIG Disk# 293)

Special Requirements: *CGA.*
Author Registration: *None.*

File Descriptions:

3-DEMON	EXE	A fascinating 3D Packman type game.
3-DEMON	HI1	Score keeper for 3-DEMON.
PC-GOLF	EXE	Plays golf on your color tube.
PANGO	EXE	Use blocks to squish the bees before they get YOU.
PANGO	HGH	Score keeper for PANGO.
KONG	EXE	Jump the barrels and watch out for the gorilla.
FORTUNE	EXE	Word game like Wheel of Fortune (mono).
PYRAMID	EXE	Climb the pyramid and the blocks change color.
PITFALL	EXE	Diving down a long pit but don't touch the walls (mono).

User Comments: *"Lots of fun. Good arcade-style games. Very frequently used around here."*

■ Brian's Games

This disk has some of the better games in the PC-SIG library. Shoot the martians before they kill you in the arcade game, SPACEVAD. Hear "Wocka, Wocka, Wocka" as you play that old favorite, PACKMAN, and keep your eye on the ball when playing BREAKOUT. All these games run on the PCjr, so nobody is left out.

(PC-SIG Disk# 274)

Special Requirements: *Some programs require a version of BASIC and CGA.*

Author Registration: *None.*

File Descriptions:

CASTLE	EXE	Find your way out of castle, get treasures, kill monsters.
CASTLE	RAN	Part of CASTLE game.
GAMES	TXT	Comments from the person who selected these programs.
XWING	BAS	Try to destroy the deathstar.
WIZARD	BAS	A role game to find the ORB of ZOT.
LIFE2	BAS	Source code for LIFE2.
LIFE2	EXE	Try to make your bacteria live.
BUGS!	SCR	Part of BUGS.
BUGS	EXE	Shoot crawling creatures before they get you.
LANDER	SCR	Part of LANDER.
LANDER	BIN	Part of LANDER.
LANDER	BAS	Land a space ship on a pad without crashing.
SPACEVAD	EXE	Shoot invaders before they invade earth.
BREAKOUT	BAS	Try to break out of a brick wall, like tennis.
PACKMAN	DOC	Documentation for PACKMAN.EXE.
PACKMAN	EXE	Gobble power pellets and eat monsters.

User Comments: *"Classic games to suit just about everyone's taste. PACKMAN, CASTLE, AND LANDER are great fun." "The games are keeping the kids occuppied. Thanks." "PACKMAN saved me a lot of quarters. Works great. CASTLE is very addicting. BUGS! Is a literally outstanding game."*

■ EGA Trek

You have been put in command of the Constitution Class Heavy Cruiser U.S.S. ENTERPRISE, naval construction contract number NCC-1701. Your mission as commander of the ENTERPRISE is to secure a 64 quadrant sector of the galaxy.

Since the collapse of the Organian Peace Treaty of 3199.5, a Klingon invasion fleet has been sighted in parts of the Federation territory. You have been instructed to eliminate any Klingon cruiser, command vessel, or Klingon starbase found in your area. Good luck, Captain!

This is an impressive EGA version of an old favorite.

(PC-SIG Disk# 1221)

Special Requirements: *EGA.*

Author Registration: *$10.00*

■ Follies

This GAMES disk has eight programs which will give you hours of fun and relaxation. ROULETTE and KENO might be used to develop your own system of beating the casinos. The 3-D TIC-TAC-TOE and the OTHELLO games are great fun, for they match your wits against the computer. The PC-OTHELLO game is meant to be played by two computer users over the telephone. If you are a serious internals person with experience in Assembly you may find COREWAR to be both fun and a learning experience. The BIORHYTHMS charting program is very good. All in all, a nice collection of computer games.

(PC-SIG Disk# 514)

Special Requirements: *Some programs require CGA.*

Author Registration: *Various.*

■ Game Series 18

This is one of the finest collections of color graphic games in the library. They cover a wide range of interests. ABC is a fun way to teach your children the alphabet. ACQB is armchair fun for you football fans. BRICK and

BABY are fast-paced challengers, and the list goes on. For a good time, try this disk.

(PC-SIG Disk# 390)

Special Requirements: *Some programs require a version of BASIC and CGA.*

Author Registration: *None.*

File Descriptions:

ABC	BAS	Kids use the computer and learn the alphabet.
BRICK	EXE	Knock down the brick wall game.
BABY	EXE	Try to catch the bouncing babies in time.
ACQB	EXE	Armchair quarterback strategy football game.
ABC	DOC	Documentation for ABC.DOC.
SOVIET	DOC	Documentation for SOVIET.
SOVIET	BAS	Escape from Soviet Science And Detention Base.
QUIMBEE	EXE	Dice game requires color monitor.
FLIGHTM	EXE	Protect the Omegans from the Desert Warriors.
README	BAT	Notes on EMPIRE.BAS.
EMPIRE	BAS	BASIC game.

■ Game Series 21

Here is another fine collection of games that will keep you busy for years to come. FIRE.EXE is a good strategy game in which you build fire breaks and drop water from a helicopter to keep your section of the forest from burning away. AIRTRAX.EXE is a very good game in which you, as an air traffic controller, try to land several planes. PTROOPER.EXE is a good arcade shoot-em-up that will keep you guessing. And for you gamblers out there, we've got a version of the old favorite, POKER.EXE.

(PC-SIG Disk# 456)

Special Requirements: *CGA for some programs.*

Author Registration: *None.*

User Comments: *"PARATROOPER and HEART are great games." "PARATROOPER is my favorite game. I also like FIRE very much." "We enjoy several of the games."*

■ Games Galore

Put your pedal to the metal! BIG-RIG is a text game which puts you behind the wheel of an 18 wheeler long-haul truck, where you must face various conditions pertaining to the road, your rig, and the weather. To make your deadline and make more money, you can skip sleep, drive faster, or increase your payload at the risk of getting into an accident or paying a fine. 10-4, good buddy!

GEMINI-2 is a tank war game which you may play against the computer's tank or that of another player remotely by modem. Colorful graphics put you inside your tank. The screen is divided into a radar map and a three-dimensional view showing the landscape and your opponent's tank.

NUKEWAR is a text game that lets you launch deadly nuclear weapons and wipe out whole cities. Choose sides. You can be the United States or the U.S.S.R. This is a game where no one wins.

In the colorful graphics game, SOPWITH, you pilot a World War I biplane. Your mission: bomb all the enemy outposts while using your machine guns against the computer's biplanes.

(PC-SIG Disk# 1328)

Special Requirements: *CGA and a modem for remote play.*

Author Registration: *$15.00*

■ Greatest Arcade Games

An assortment of our finest arcade-type games, just like the quarter-gulpers. Play FLIGHTMARE for space jockies, JUMPING JOE for Mario types, STRIKER for fighter pilots, and SPACEWARS for battling star ships. When you need to take a break from the action and thrills, try SOLITAIRE, a game that isn't in the arcades but should be.

(PC-SIG Disk# 457)

Special Requirements: *CGA.*

Author Registration: *$20.00*

User Comments: *"FLIGHTMOVE and JUMPING JOE are well worth it."*

"These are some of your best games. Nine year old loves STRIKER. I thought JUMPING JOE was the best." "My kids love STRIKER and SPACEWAR." "Solitaire was great. STRIKER keeps my grandson busy for hours." "Greatest arcade. The graphics in STRIKER are incredible. SPACEWAR is great! JUMPING JOE is too fast on an AT class machine." "My kids love them."

■ International Game Collection

PC PONTOON is a memory-resident blackjack type game with a few twists on the old classic.

The game is based on the original classic pontoon or blackjack, whichever you want to call it. From Ireland, it diverges from American casino blackjack in several significant ways. Like conventional casino blackjack, the object of the game is to get 21 or less, but PC PONTOON is for one player only. Some other rules of the game: if you and the computer get the same value, then the computer wins that game; Pontoon (blackjack, a natural) beats any other hands; a five-card trick beats all other hands except for Pontoon; and if both players go over 21 (bust) then both bets are returned.

PRINCE lets you rule your very own kingdom. Make decisions on how to rule it and face the consequences.

You have just inherited a small domain somewhere in the boundless tracks of central Asia. Each year you meet with your royal council and decide how many acres of land to cultivate, how much grain to reserve in the storehouses, and how much additional grain to buy or sell. Gold acquired from trade is needed to maintain your loyal troops, which can be used to defend your territory or to conquer new territory to accommodate an expanding populace. You can also send scouting parties to get information about the strength and potential threat of your surrounding neighbors. Above all, the main objective during your term is to build an irrigation system to guard against drought and make your crops more productive.

When making your decisions you must be careful not to tax your citizens too high, since they might starve or grow rebellious. On the other hand, if you tax them too low, there may not be enough grain for planting crops next year. At the end of the year, your officers report to you a summary of the year's important events, such as harvest yields, balance in the treasury, population count, effects of drought or plague, territory captured, and information on the developments of any invasions from surrounding territories. The kingdom is in your hands. If you do well you will be honored, but if you do poorly you can always abdicate.

BALL CATCHER is a game where the object is to catch balls with a basket. A basket is moved below columns using the number keys one to eight. Balls move down columns called tubes slowly at first, but increasingly more rapidly. Every ball caught by the basket scores a point, and missing a ball registers a fault. A round ends when eight faults are accumulated, or the time allowed in seconds has elapsed. Points are determined by completed rounds versus the number of faults.

(PC-SIG Disk# 1140)

Special Requirements: *None.*
Author Registration: *$10.00 to $15.00.*

■ Maze Cube

Remember magic squares — those little black and white plastic puzzles with the 24 numbered tiles and one empty space? You had to slide the tiles back and forth until you got all the numbers in the right order. This is the computer version and it's all grown up!

MAZE CUBE is an addictive puzzle strategy game for all ages. The object is to match a given pattern with the fewest number of moves. It is a great way to help younger players develop logical thinking and spatial relationship concepts. For the older player, its just plumb good fun! MAZE CUBE is entirely menu-driven and provides thorough on-screen instructions. Age level: 6-adult.

Also included are 25 different puzzles of varying degrees of difficulty. A nice feature is the autoplay facility that replays your best game so you can see where improvements are needed. The program also lets you design your own puzzle patterns, up to a maximum of 99 different games.

(PC-SIG Disk# 1419)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Miscellaneous Games

A collection of programs inspired by the Computer Recreations column in "Scientific American." Several data files are included.

- HYPER — a hyper cube (fourth-dimensional cube) drawing program.
- WALLPAP — an intricate patterns drawing program with a very simple numeric seed.
- WATOR — a biosphere simulation in which fish are eaten by sharks, which die and reproduce.
- CLUSTER — a simulation of the motion of star clusters of two or more stars.

(PC-SIG Disk# 945)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ Patrick's Best Games

These games were gathered from previous PC-SIG disks to give a good representation of high-quality games for the new user. 3-DEMON is a great game that puts you in the body of Mr. PAC-MAN. Instead of seeing an overhead view of the maze while you dodge your pursuers, you will be inside the maze running into walls and dodging demons. SPACEVAD is a super copy of the arcade game Space Invaders. BUGS is a good version of the classic arcade game of Centipedes. All these games run best on an eight or lower MHz system. But, if you're brave enough, run them on an AT.

(PC-SIG Disk# 476)

Special Requirements: *Some programs require CGA and a version of BASIC.*
Author Registration: *Various.*

User Comments: *"Good collection." "3-DEMON PACMAN is a nice twist. BUGS is a corker! PACGAL brings back old memories." "3-DEMON is excellent! CASTLE is a mystery."*

■ Pinball Rally

Here is a disk for the pinball addict. It has three games created using the program "Pinball Construction Set," by Bill Budge. The games vary in the level of difficulty but they are all interesting. They include PINBALL, which is the standard pinball game; RAIN, is a more complicated game as it uses five pinballs at the same time; and TWILZON2, is perhaps the most difficult — something for the Rod Serling fans.

(PC-SIG Disk# 557)

Special Requirements: *None.*
Author Registration: *None.*

■ Space Rescue

A variation on the classic "Lunar Lander" theme.

Launch from Earth, maneuver your ship to dock with a space station, transfer the crew, return and land, preferably safely, on Earth again.

There are only a few commands to learn, which is good. You're not going to have a lot of time for practice. You'll be too busy trying to stay alive. Heads up!

(PC-SIG Disk# 749)

Special Requirements: *None.*
Author Registration: *$12.00*

■ Super Pinball

SUPER PINBALL is a collection of five great pinball games, each with a unique layout. You control the flippers with your left- and right-shift keys for realistic pinball action. The disk is menu-driven, letting you jump between games without exiting to DOS. No documentation is provided with this disk and none is needed — simply type GO and choose your game.

(PC-SIG Disk# 723)

Special Requirements: *CGA.*
Author Registration: *$5.00*

User Comments: *"Realistic and entertaining. Best of PC-SIG's adventure texts." "Nice use of color. Good flipper action. Realistic." "Graphics are great. The games are addictive." "Very good, fast, just like real pinball. My elementary school kids love it!"*

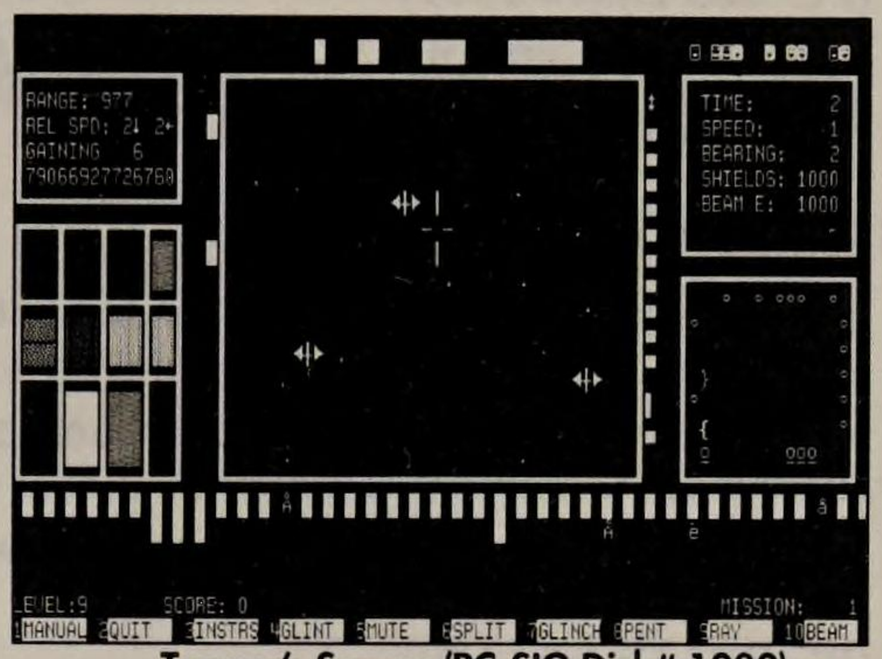
■ Tommy's Saucer

Climb into a spaceship cockpit to battle enemy saucers. Your mission is to destroy invading ships with the help of your shield and energy stores. A point is scored every time you destroy an enemy saucer but the score reduces by one for every 30 clock ticks. The mission terminates when your shields are blasted and your ship is destroyed.

TOMMY'S SAUCER has various display panels to show the energy level, range, target lock-in status, and aiming coordinates. You use a command panel at the bottom of the screen. The program has a sound effect toggle, a demo mode, function key control, and an optional expanded view screen, and nine different levels of difficulty. Runs on mono or color.

(PC-SIG Disk# 1282)

Special Requirements: *None.*
Author Registration: *$2.00 and $3.00 outside U.S.*



Tommy's Saucer (PC-SIG Disk# 1282)

■ Willy the Worm

ARCADIACS — Try WILLY THE WORM, a high-quality action game!

Like Donkey Kong or Lode Runner? Then you'll love WILLY. When you've exhausted the possibilities or grown weary of the screens as they are, use EDWILLY and create your own screens. Keep Willy moving and keep having fun!

(PC-SIG Disk# 445)

Special Requirements: *CGA.*
Author Registration: *$10.00*

User Comments: *"WILLY THE WORM is a lot of fun." "Lively action. The kid's love it! WILLY THE WORM is addicting."*

■ Worthy Opponent

WORTHY OPPONENT is a competitive, challenging, and entertaining game package that actually allows you to play games over your modem with other opponents.

What makes WORTHY OPPONENT unique are the sophisticated communications capabilities. Game competition occurs with an opponent miles away. You can still taunt and jeer at your opponent with every move. Discuss anything you like; strategy, good/bad moves, etc. with the specialized "talk" capabilities.

With excellent graphics, WORTHY OPPONENT is completely menu-driven and has on-line help screens to explain all functions. Four games are on the disk; Snake Pit, CornerStone, Checkers, and CannonBall.

Tournament play is also available where you can play against remote opponents using the on-screen clock.

(PC-SIG Disk# 1175)

Special Requirements: *Modem.*
Author Registration: *$15.00*

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Games, Arcade (Sports)

■ Basstour

BASSTOUR is a fishing tournament game in which you captain a fully-rigged bass fishing boat. You control where the boat goes and and how it gets there. Your bass boat has all the latest accessories, including a trolling motor, LCD chart recorder, a rod box containing six different fishing rods, and a fully stocked tackle box. The object of the game is to catch the heaviest five fish limit on each of three days of the tournament. The fisherman with the highest total weight wins the tournament. As in real fishing, it's not always easy!

BASSTOUR has three levels of play: novice, intermediate, and professional. In any of the skill levels, you are fishing against 30 of the top names in bass tournament fishing. You have six different bodies of water that you

can fish. The fishing area is drawn on the screen, and the program randomly decides where fish should be placed. If you love to fish, you will love BASSTOUR.

(PC-SIG Disk# 1319)

Special Requirements: *512K RAM and EGA.*
Author Registration: *$10.00*

■ Budget Baseball

Bring big league baseball to your den with BUDGET BASEBALL. Become one of baseball's great managers. You can replay a World Series game or pit a Series contender of one year against a team from another year.

Along the way, you can alter the course of the game by controlling batters, runners and pitchers. You can even alter infield placement, call for intentional walks and display the team rosters. You can tell the batter to bunt, take a pitch, try to fly out, or go for a home run. On base, you can tell the runner to try and steal. A marvelous game for baseball fans.

(PC-SIG Disk# 1400)

Special Requirements: *CGA.*
Author Registration: *$19.95*

■ Cunning Football

You pick the plays, you run, you pass, you score! It's CUNNING FOOTBALL — a fast action game for mouse, keyboard, or joystick!

CUNNING FOOTBALL provides the "Saturday" quarterback a chance to try all of his winning strategies on a realistic playing field that includes interceptions, penalties, and an opposing team that wants to stomp you into the ground. On offense, you control the player with the ball. After the snap, you control the QB until you pass, lateral, or handoff the ball. On defense, you control the middle/inside linebacker. After selecting a play from the menu, you can display a diagram of the play to give you information about where you should move, who your available receivers are, and when you should pass. Go team!

(PC-SIG Disk# 1240)

Special Requirements: *EGA or VGA.*
Author Registration: *$18.00*

■ PC Pro-Golf

PC PRO-GOLF is a game that graphically depicts in four colors an actual golf course with water-hazards, sand-bunkers, wooded areas, buildings, roads, etc. With each stroke the player may watch the course of the ball and see where it lands. When your ball comes within a certain distance from the hole, the program will display a close-up view of the hole so that you may putt the ball in.

Penalty-strokes are added under the correct conditions and an updated score-card is available for review at any time, as are the help-screen and club-values list. An unfinished game may be saved for resumption at a later time.

Getting the program up and running is made easy by a very sophisticated installation program that was smart enough to know that we were testing this program on a Tandy SX1000! Also included is the printable 10-page manual, and AMHERST, another complete 18-hole course. Fore!

(PC-SIG Disk# 1344)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ ProChallenge Baseball

PROCHALLENGE BASEBALL is a one- or two-player strategy game of computer baseball that has a variety of player options for every pitch of the game.

In this version the game simulates the 1987 World Series game between St. Louis and Minnesota, but in the registered version of the program you may choose between 26 Major League baseball teams. PROCHALLENGE BASEBALL is set up where you are the manager giving signals to the players. The pitching team has the options to change its defensive formation, pick off a runner, and decide what pitches to throw. When a pitch is thrown, you can specify where the ball should be placed over the home plate. The options for the team at bat include the choice to swing at the ball, bunt, steal a base, lead off a runner, hit and run, run and hit, and call the pitch.

PROCHALLENGE BASEBALL does everything to simulate the actual game, even to the point of using the statistics for each player of the team. Baseball fans will be pleased that the program allows them to play based upon the skill and strategy of the real game of baseball. PROCHALLENGE BASEBALL has graphic screens for the entire field with its players and the view from the pitcher's mound, not to mention the many colorful game menus to aid in game play. At any time you may let the computer make the signal, so that one player may play against the computer or even the computer against itself.

(PC-SIG Disk# 1207)

Special Requirements: *CGA.*
Author Registration: *$24.95*

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Games, Arcade (Remote Communication) See *Games, Arcade.*

Games, Board and Dice

■ Backgammon

BACKGAMMON is finally here for your PC! Now you can play against a STRONG opponent on your own computer. If you've never played before, or you're the champion of your local club, BACKGAMMON will fill the role of instant opponent. For the true aficionado, the program keeps track of points, games, gammons, and backgammons.

(PC-SIG Disk# 708)

Special Requirements: *None.*
Author Registration: *$21.95*

■ Board Games

A trio of classic board games.

PC-PENTE is a game with its roots in the ancient game of Go. The playing field is a grid and the object is simple: either get five of your pieces in a row OR capture 10 of your opponent's pieces by surrounding them with your pieces. It is assumed that you already know how to play the game, but in case you don't, RULES.COM has a concise overview of the basic strategy of Pente.

PYRAMIDS is a strategy game based on an ancient Egyptian theme. You and the Pharaoh Cheops are vying to discover the other's pyramid before your own is found. The playing pieces include sphinxes, lions, bulls, rams, wolves, hawks, camels, cats, antelopes, and a cobra — each with special powers. You can see your opponent's pieces and your opponent can see yours, but you do not know the rank and power of each until one of you attacks the other.

YAHTZEE is the classic dice game we've all played in which you try to collect pairs, three-of-a-kinds, full houses, and the like for points by rolling six dice. From each roll, you can pick up from one to six of the dice and re-roll them, to try to better the score you receive for the roll. Once a requirement has been filled, you cannot use that roll again. The winner completes his list with the highest total score.

(PC-SIG Disk# 993)

Special Requirements: *A version of BASIC.*
Author Registration: *$5.00 to $10.00.*

■ Five Dice Game

Get ready to roll! FIVE DICE GAME is a fun way to play dice. It is played by two or more players, with the object to attain a score of 5000 points or more. Each player rolls the dice, accumulating a score as long as he rolls scoring dice. If he fails to roll any score, he loses his turn and a "scratch" is posted against him. After any player has 5000 points, every other player gets one more chance to beat that score. The game can be played by up to 15 human or computer-controlled players (counting yourself). The computer can play any of three different strategies, from very conservative to fairly aggressive.

The program is very easy to run and instructions are included. This is an excellent program for any user — novice to expert. The Turbo Pascal source code is included in case you want to modify or write your own computer players.

(PC-SIG Disk# 743)

Special Requirements: *None.*
Author Registration: *$5.00*

■ MAH JONGG

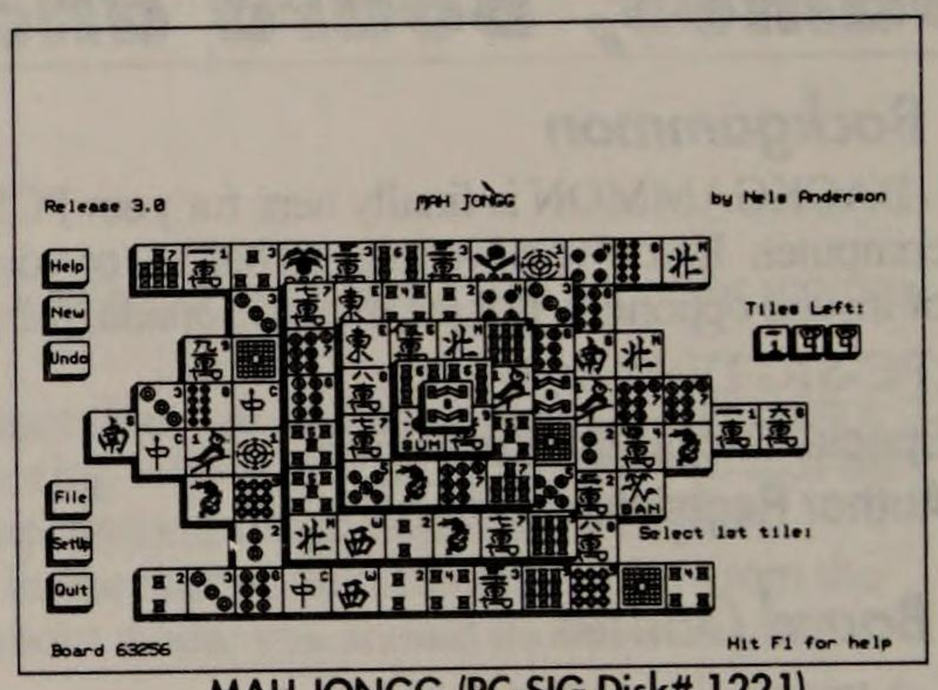
MAH JONGG is based on an ancient Chinese game that has been around for centuries. The object of the game is to remove as many matching tiles from the playing board as possible. Sounds easy, huh?

Not quite. The board has five levels of tiles and the tile you may need might be at the bottom level, out of your reach. There are 65,535 different boards that can be played, which will keep you glued to your computer for many hours.

The game supports Hercules graphics as well as EGA. An UNDO facility, mouse support, and game statistics make it more interesting than ever.

(PC-SIG Disk# 1221)

Special Requirements: *Hercules graphics or EGA.*
Author Registration: *$10.00*



MAH JONGG (PC-SIG Disk# 1221)

■ Mahjong

MAHJONG is a Chinese gambling game which arrived in the West in the early 1920's. The origin of the game is unclear but its development has touched on astrology, chess, gambling and, oddest of all, the Earth's magnetic field.

It is a fast moving, dynamic game that becomes addictive with its excitement and intrigue. The basic premise is a card game with 136 cards (or "tiles" as they are called in MAHJONG) requiring both skill and luck. Four players receive 13 tiles each and then pick up and discard tiles as they try to obtain four complete sets and a single pair of tiles.

The game is interesting because of the many combinations possible and the skill required to increase your score. To add further excitement, the fast pace provides little chance for contemplation — thus developing an "instinct" rarely seen in other games. Three levels of play are provided; beginner, advanced, and professional. An entertaining game for the whole family.

(PC-SIG Disk# 641)

Special Requirements: *Hercules graphics.*
Author Registration: *$30.00*

User Comments: *"Impressive programming. Makes you feel the fast pace of real mahjongs." "Gave it five for beauty and documentation." "Hours of enjoyment with this program."*

■ Miscellanous Games and Lotto

YES is the dice game Yahtzee for two players and has all the same rolls: full house, large straight, four of a kind, etc. The program randomly generates the dice rolls and automatically keeps score for each player.

RUN FOUR challenges two players to be the first to get four checkers in a row on a six-by-seven game board. Each checker must be placed at the bottom of the board or stacked on top of one another. A player wins by scoring four in a row either horizontally, vertically, or diagonally. RUN FOUR is supposed to have a different color for the checkers of each player, but on an EGA moniter both of the players' checkers are colored red.

ROBIN plays exactly like Bingo. Fun for parties, it prints up to 33 different cards for players and then randomly generates callouts. The player with the first winning card shouts, "ROBIN!"

LOTTO MAGIC WHEELER helps you select and wheel numbers to bet in a six-number lotto game. Wheeling is the technique of placing your numbers into combinations that guarantee a winning pick, any four of the six numbers are chosen. Options offered: computer random pick — provides no wheeling; and wheeling 7 to 12 numbers.

(PC-SIG Disk# 1292)

Special Requirements: *Printer.*
Author Registration: *$10.00 to $19.50.*

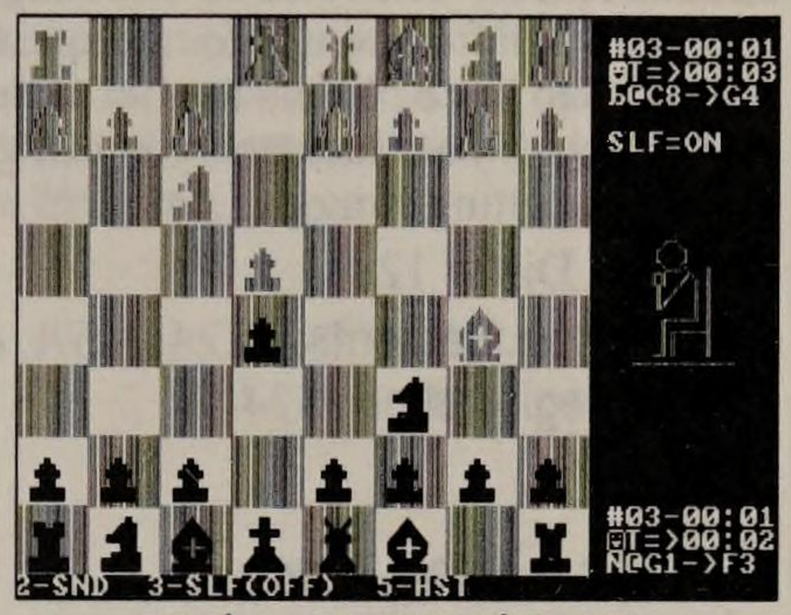
■ NCRisk

This colorful strategy game, a clone of the Parker Brothers' game Risk, pits you and your army against the armies of up to three other players in a worldwide conflict.

Strategy involves trying to pick up extra armies by occupying whole continents. At the same time, you must protect yourself against unexpected moves by your opponents. Do not expect a short game if your foes are skilled. Conquering the world can be difficult!

(PC-SIG Disk# 1322)

Special Requirements: *Hercules graphics, CGA, EGA, or VGA.*
Author Registration: *$10.00*



PC-Chess (PC-SIG Disk# 120)_

■ PC-CHESS

This program lets you play chess against the computer or a human opponent. The difficulty levels of the computer's chess games are not particularly difficult, so it is not a challenge for experts. But when competing against human opponents, the program can store up to 26 games in-progress.

The graphics of the game only appear on systems using either EGA or CGA adapter cards. The program uses ASCII characters to depict the chess pieces on a monochrome or Hercules graphics systems.

(PC-SIG Disk# 120)

Special Requirements: *CGA, EGA, or Hercules graphics.*
Author Registration: *$15.00*

■ SPRINGER

SPRINGER offers the beginning to intermediate chess player 10 levels of difficulty and plenty of options.

You can play against the computer, watch the computer play against itself, or play against another player while SPRINGER watches for illegal moves. You can take back a move you made, swap sides, and even interrupt the computer's thinking to force it to make a move. The maximum time SPRINGER takes to make a move varies from one second to a little over three minutes, depending on what level you are playing and your type of computer.

For games that are saved on-disk, SPRINGER can do an instant replay of the entire game or let you replay each individual move one at a time. It also prints a list of moves for each chess game, or prints a graphic display of the chess board at any time in the game. You select and move pieces with the cursor pad. On-line help is available for all options. You can play on either color or monochrome systems.

(PC-SIG Disk# 1434)

Special Requirements: *Epson or compatible printer.*
Author Registration: *$12.00*

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Games, Cards

■ BlackJack

BLACKJACK provides hot action for one to six players with good quality card graphics. Options include insurance, splits, totes, opening player banks and game banks, and initial bet sizes. You can also set card-weight values and combine player names with levels of skill, as well as specify how the dealer and each player are to be treated during the game.

(PC-SIG Disk# 1329)

Special Requirements: *CGA.*
Author Registration: *$17.50*

■ BlackJack!

BLACKJACK! is a tour de force in beating the casino dealer that might help you line your pockets with green. Long overdue, it teaches you a basic blackjack strategy, adds an effective card counting system to it, and drills you on both the

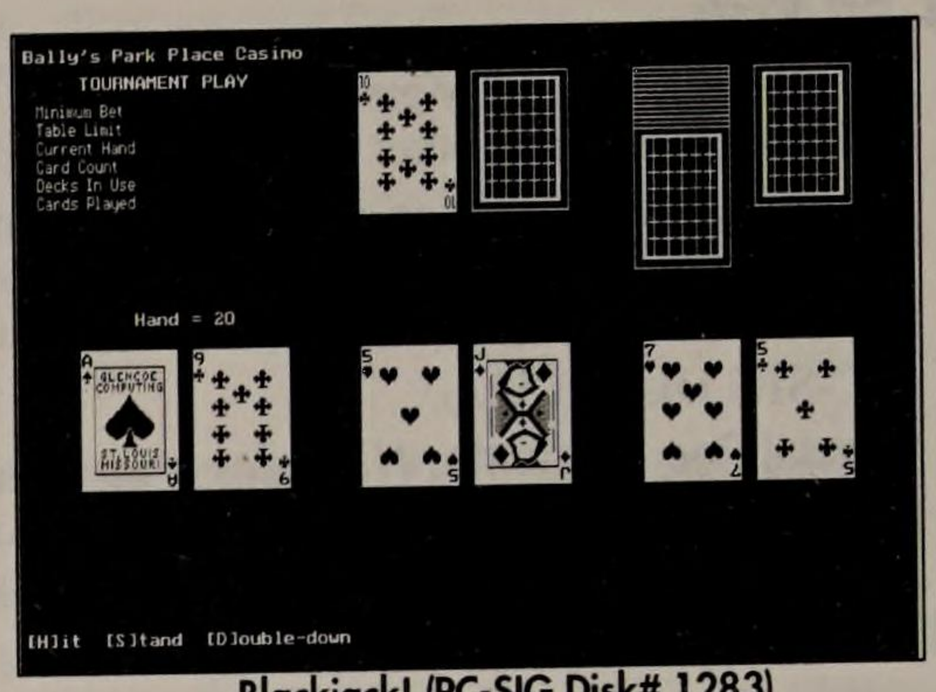
strategy and your counting ability. You play against world famous casinos or customize the rules the dealer follows. It's fun, quickly played, and could fatten your wallet on your next trip to Nevada, New Jersey, or Monte Carlo.

BLACKJACK! is a joy because you can alter the number of decks in the shoe and practice your count in the most difficult of circumstances. The rules on doubling down automatically change as you switch from single to multiple decks. You can play head on or add up to three players to your table. You watch your bank rise and sink with your luck and you can get instant advice on how to alter your betting strategy.

(PC-SIG Disk# 1283)

Special Requirements: *EGA, VGA, or Hercules graphics.*

Author Registration: *$24.99*



Blackjack! (PC-SIG Disk# 1283)

■ *Bridge Game, The*

TURBO-BRIDGE is a bridge game that lets you practice playing against yourself or the computer. Not only can this program be used for fun, but it can help you practice the strategies of the game.

You can have all four hands in play displayed on the table, allowing you to play the hands of as many of the players as you wish or, after bidding, the computer can play out the game. You may or may not want the computer to see your hand. Not only are the cards in your hand (and optionally others) displayed, but the played cards are listed.

(PC-SIG Disk# 890)

Special Requirements: *None.*

Author Registration: *None.*

User Comments: *"Both programs run on Hercules monochrome, which is unusal in games. I'm impressed!" "Good program. Excellent games."*

■ *BridgePal*

Want a good game of bridge but lack the players? Want to improve your skill a bit before your next big game with your friends? This game's for you.

BRIDGEPAL is played just like a normal game of bridge, except the computer shuffles, deals, makes bids, plays the other three hands, and keeps score. You start bidding and playing from the south hand position. If your team wins the bidding, you get to play both the north and south hands; otherwise, you play defense with east or west as dummy. Optional besthand feature increases your chances for offensive play.

(PC-SIG Disk# 780)

Special Requirements: *None.*

Author Registration: *$9.95*

User Comments: *"Excellent bridge game. Easy to use and most pleasurable." "I enjoy while becoming a better player." "Good sporting partner." "Extra features such as automatic pickup add enjoyment. The capability to replay hands taught me things I could have never learned otherwise." "Simply your best adult game ever. Exactly like card game of bridge. Every hand is different. I'll be playing this game forever." "For one with only a beginner's knowledge, I was pleased with the options of automatic scoring, computer assisted bidding, and especially the chance to replay a hand to allow experimentation." "My mom loves it. She's 85 and wants to buy her own PC to run this."*

■ *Card Game Collection*

Bring your own deck and cut! Here's a lively collection of card games for your betting pleasure!

Going to Vegas or Atlantic City? Get in shape with HOLDEM POKER, the most popular card game in big casinos and card rooms across America. You play eight other players and start betting when you get two cards. The dealer displays three more cards which anyone can use. After betting, two more cards are displayed. This is a tough game and only the smart and the rugged survive.

ACCORDION SOLITAIRE brings the battle-weary a game for rainy Sunday afternoons when time is as unimportant as winning. A gentle game with lots of instant gratification, it deals cards one by one. If cards next

to each other are of identical rank or suit, pile one atop the other. Likewise for those spaced three cards apart. As the surf beats upon the shoals of Nirvana, you'll find your row of cards shrinking. Using serene strategies, you might in this, or some future lifetime, get down to a single stack and win.

RED DOG will delight any betting man or woman. A computerized version of the old Acey Duecy game, it pits you against the house. Professionally drawn and swiftly moving, it deals a spread of two cards. Your goal: draw a card numerically between the spread of the two dealt cards. You view a payoff table which tells you how much you will win if your draw is successful. You can raise your bet once.

Poker whizzes hone their betting skills on POKER SOLITAIRE. On the surface, it looks like a simple game. Responding to cards dealt one at a time, you fill out a five card by five card square, trying to make the most points possible. Runs, flushes and other poker hands are scored vertically and horizontally. You compute your best odds in two directions at once as you decide where to place the next card. The game moves fast; vibrant colors and designs enhance the screen.

(PC-SIG Disk# 1280)

Special Requirements: *None.*

Author Registration: *$15.00 for each game.*

■ Computer Contract Bridge

COMPUTER CONTRACT BRIDGE is played by two teams, the WE team and the THEY team. The WE team consists of the North and the South. The computer is North and you're South. The THEY team consists of the East and the West, both played by the computer. All your interactions with your computer opponents are done through the keyboard, and you'll generally get a prompt on the screen to tell you what to do next. If you pay attention to the prompts and follow their lead, you will have no trouble playing. The computer plays a fairly good game, but in time you can learn how to win. This particular version of the program is meant for the novice bridge player. Though it is a game and not a tutorial, you will definitely learn a lot by playing it.

(PC-SIG Disk# 713)

Special Requirements: *None.*

Author Registration: *$4.95*

User Comments: *"Bridge game is quite interesting. Good for practice." "Greatest card games I've played on the PC. We need more of the same." "All excellently done."*

■ Computer Draw Poker

Walk away from your next game a winner! COMPUTER DRAW POKER is a fun and challenging program; an excellent way to increase your skill at poker. It is played as five card draw poker with no requirements for opening bet and no limit. Both the player and the computer start with 1000 chips. Each antes one chip before cards are dealt, and can raise the ante up to three chips per round.

This program is both a player and a tutor. It does not look at your hand to make its own playing decisions, and when it does check the cards you're holding, it doesn't remember them. It checks your hand only to see that you are playing by the rules — and tells you so when you're not. It also tells you when to bet, see, raise, call, fold, discard, and draw. The computer plays with a certain degree of sophistication and will bet high or low, as well as bluff, at random. When you can consistently beat the computer, you are playing with a good deal of skill.

(PC-SIG Disk# 714)

Special Requirements: *None.*

Author Registration: *$4.95*

■ Computer Solitaire

The government should put COMPUTER SOLITAIRE on its list of addictive substances. The three games offer the compulsive obsessive card dealer all the variety and challenge you can handle. SPIDER is a tricky deal, the nearest thing to a solitaire strategy and skill game. Played with two decks, it's easy to learn but hard to master. You'll recognize KLONDIKE, today's most popular solitaire game. But you'll be taunted by three skill levels and a unique scoring system. CANFIELD, a voice from Saratoga's past, will haunt you. Originally, you bought a deck for $50 and got $5 for every card played in the field.

(PC-SIG Disk# 1177)

Special Requirements: *CGA.*

Author Registration: *$29.95*

User Comments: *"Endless hours of entertainment. I love the solitaire games. Saves shuffling."*

■ Game Fun for All

LAS VEGAS EGA CASINO is a package of games that use the special features of your EGA monitor. Included are: Las Vegas Casino Black Jack, Las Vegas Video Poker, and Las Vegas Dollar Slots (MicroBucks). You can choose any of the three games to play from the program menu. It has great graphics and is so realistic you forget you're playing a computer.

XWORD lets you quickly create a crossword puzzle that can be saved to disk and printed. The crossword puzzle size can be from 15x15 to 23x23. You enter words with the cursor onto the puzzle grid. Afterward, the words can be "deleted," with the word placed on a "move" list where it can be recovered and placed in another location. This program maintains word lists for across and down, and clues which you can see at any time. XWORD lets you enter words on the puzzle grid even before the clue list is made. After you finish your puzzle, the program lets you print a blank crossword puzzle, a clue list, and the solution to the puzzle. Your crossword puzzle can be saved to disk. Thus, the amount of crossword puzzles you can create is limited only by disk space and your own imagination.

CASTLE DROGANYA is a reactive adventure game. The course of the game is dictated by your response to the situation. The goal is to free the souls of the townspeople who have been trapped by the evil Lord Droganya.

LIAR'S POKER is a game utility that simplifies playing Liar's Poker, a betting game in which each player's "hand" is a dollar bill serial number. The program generates random numbers that can be substituted to play the game. It keeps records on disk for up to 20 "liars" (players), each liar having up to 20 numbers which can be printed or displayed on the screen.

(PC-SIG Disk# 1074)

Special Requirements: *EGA and a version of BASIC.*
Author Registration: *$5.00 to $20.00.*

■ Poker

Play draw poker head-to-head with the computer. POKER has a sophisticated style of playing and betting, and is intended to challenge the serious poker player.

It's honest. The computer does not know what is in your hand unless there is a showdown.

It's smart. The game has different patterns of betting and can observe your style of betting and modify its own behavior accordingly.

It's cagey. POKER can bluff in several ways and sometimes makes large bets with bad hands or no bets with good hands. Every action it takes has at least two possible interpretations. The randomness of the shuffling has been tested in simulations involving over half a million hands and the results mirror those expected in normal poker playing.

Ante up and deal 'em.

(PC-SIG Disk# 791)

Special Requirements: *None.*
Author Registration: *$20.00*

■ PSQUARES

PSQUARES is a computerized card game for one to 10 players in which each player tries to obtain the best poker hands possible. Cards are displayed on a five-by-five grid, and poker hands can be formed going both across and down. In multiple player games, you may choose to have the same deck of cards dealt to each player for each round.

PSQUARES also gives you the options to make dueces wild, to have three peeks at the next card for each round, to use an alternate scoring table, to have bonus points, to have one to three extra cards dealt to replace previous cards, and to undo the placement of your last card before dealing the next card.

PSQUARES requires a bit of strategy and a bit of guessing, and is fun to play both alone and with others. PSQUARES has a tournament option, in which you may play three, five, or seven rounds, where the program chooses the game setup for each round. The program also allows you to save up to 15 games on disk for later use.

(PC-SIG Disk# 1191)

Special Requirements: *512K RAM and CGA.*
Author Registration: *None.*
User Comments: *"Challenges one to develop the best poker hands possible. Great disk for relaxation."*

■ SMSPOKER

SMSPOKER is similar to a Las Vegas poker machine. It's a solo game played against the deck/machine. You are dealt five cards in a horizontal row. The better the hands you get, the more $$$$ you can win. Between each poker hand, the game asks if you want to bet on whether a random card drawn from the deck is higher or lower than eight.

(PC-SIG Disk# 55)

Special Requirements: *CGA.*
Author Registration: *$10.00*

■ Solitaire

SOLITAIRE is a computer version of the classic card game with additional features. Undo your last card played, select the number of cards to turn from the deck each time (usually three), and ask the computer whether or not there are any additional plays that can be made in a certain turn. There are several cheating options that you may or may not want to use, such as peeking at the first overturned card in each stack. On-line help is available to the player throughout the game.

(PC-SIG Disk# 891)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Solitaire Card Games

Attention escapist compulsive obsessives! Avoid this trio of solitaire games like the plague. Otherwise, you'll spend the rest of your life hunched over your PC enjoying these spiffy designer solitaire games. There's enough variety to keep you going for hours or eons. For those lonesome souls who need card games like ELEVEN, EVEN OUT, and BLOCK11 as a substitute for meditation or tranquilizers, this disk is worth its weight in gold.

(PC-SIG Disk# 1411)

Special Requirements: *None.*
Author Registration: *$5.00*

■ Ultima21

Play Blackjack as it's played in the casinos with the computer as the dealer. ULTIMA21 keeps track of the hands played and who won each hand. It also shows your longest winning (and losing) streaks. In addition, you can set up your own options — resplit aces, double-down on any number of cards, make the dealer stand on 17, turn the sound on during play, and other things to keep it interesting.

Hit me!

(PC-SIG Disk# 791)

Special Requirements: *CGA or EGA.*
Author Registration: *$20.00*

User Comments: *"ULTIMA21 is useful for learning and polishing basic blackjack skills. The best disk I've purchased. I love ULTIMA21." "Good graphics and works good. Challenging head-to-head poker." "Tough games. They take sloppy players to the cleaners every time. Good for testing gambling systems." "Best poker game I've tried."*

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GameScape, Space Slug, Marooned & Ringwielder Three space games — MAROONED AGAIN, GIANT SPACE SLUGS and RINGWIELDER. A text-adventure, an arcade game and a role-playing situation. If you ever get bored, use GAMESCAPE to build your own games. See *Games, Adventure and Text.*
(PC-SIG Disk# 1293)

Gantt Chart A diagram that shows the schedule for a series of interrelated tasks. Such a chart is used primarily as a business scheduling tool. Gantt charts were in use before computers, but software has made them much more manageable. For programs see *Project Management.*

Gantt Charting Keep track of your project and the resources committed to complete that project with timespans to 36 months. See *Project Management*.
(PC-SIG Disk# 1306)

Gantt Pac Keep your project on schedule. Produces Gantt charts. This provides a method of tracking tasks necessary to the completion of a project. See *Project Management*.
(PC-SIG Disk#'s 593, 1198)

Garc's Utilities Give it the filename and text or data you are trying to locate, and this program numbers the lines in your file and lists those which contain the text you are searching for. See *Printer Managers*.
(PC-SIG Disk# 1370)

Garden City Software Collection #1 A history timeline of over 500 famous people, providing year of birth and death, occupations, and noted quotes. Turns your PC into a fish tank, a soothing electronic aquarium to banish stress. See *Entertainment, General*.
(PC-SIG Disk# 1421)

Garden City Software Collection #2 Six programs that can figure house payments, provide sound effects, tune your guitar and keep the beat, give you the time in Tokyo, and hypnotize your friends. See *Entertainment, General*.
(PC-SIG Disk# 1422)

Gardener's Assistant Fresh fruits, vegetables, and herbs from your own garden. Gain expert guidance and a green thumb! See *Home Management*.
(PC-SIG Disk# 1125)

Gardening See *Home Management*.

GEM IMG Files See *Presentation Graphics (Slides)*.

Gemcap Capture screen images from programs and load them into other programs, as long as the files are compatible with GEM.ING files. See *Presentation Graphics (Slides)*.
(PC-SIG Disk# 1305)

Gemini-2 It's a one-on-one tank confrontation. Your tank and your enemy's tank are last of many left in the battlefield. Blow him away before he can get the chance to do the same. A Battlezone clone. See "Games Galore" listed under *Games, Arcade*.

Genealogy

■ FAMILY HISTORY

Ever wonder who's lurking in the upper branches of your family tree? The FAMILY HISTORY system, a modular genealogy program, will help you organize and refine your search.

The system stores information about individuals, including all family relationships. You are not limited in the number of relationships that might exist for each individual, or the number of generations of ancestors or descendants. Information for up to 3200 individuals may be stored on a disk and up to 9999 on a hard disk. You can produce ancestor, descendant, and family group reports and ancestor (tree) charts. You may print out blank worksheets and charts to record information for entry into the system. A set of sample files is included, using the descendants of Adam as recorded in the book of Genesis in the Bible.

Research your roots and know where you came from. A great gift for the next generation.

(PC-SIG Disk#'s 361, 632)
Special Requirements: *None.*
Author Registration: *$35.00*

■ Family Ties

FAMILY TIES is designed for the organized compilation of personal genealogical information.

All of the names entered in this program are automatically linked to each other, defining relationships. Starting with one individual (usually yourself) use the edit mode to enter your data. Then add a person linked to this first individual; for example, parents, spouse, other spouse or child, and enter their information. Start with any male person and then ancestors or decendants can be added in any order.

Please note: This program also has an optional mode which conforms to the preferences of The Church of Jesus Christ of Latter Day Saints (LDS) and maintains records according to sealings, baptisms, endowments, and temple dates.

(PC-SIG Disk# 465)

Special Requirements: *None.*
Author Registration: *$50.00*

■ Family Tree Genealogy

FAMILY TREE is a general purpose genealogy system designed for charting and maintaining family tree information and relationships between individuals. The system is menu-driven with single-keystroke commands, scrolling, mini-windows, and output to screen, printer, disk file. You can change default options to select disk drive, screen colors, and printer control codes.

The maintenance function allows the entry of names, sex, dates/places of birth/death/marriage, and free-form text remarks. Spouse and parent/child relationships are established after data is entered.

The chart function uses the database to make reports by pedigree, ancestors, family groups, decendants, and relationships.

(PC-SIG Disk# 240)

Special Requirements: *Printer.*
Author Registration: *$35.00*

■ Genealogy ON DISPLAY

GENEALOGY ON DISPLAY is an integrated, menu-driven group of 20 unprotected BASIC programs for IBM-PCs (including the IBM-PCjr). The programs will help you organize, record, and report your own genealogical data.

As shipped, GENEALOGY ON DISPLAY provides for 500 persons and 200 marriages within its database, with no specific generation limit. These numbers can be increased to over 3000 persons and over 1000 marriages with sufficient storage space, i.e. a hard disk.

Output available for printing or displaying on the screen includes:

- Charts of ancestors (pedigree or family tree charts)
- Charts of families (family group charts)
- Charts of descendants (30 generations default)
- Detailed personal information
- Detailed marriage information
- Lists of persons (by number or alphabetized)
- Lists of marriages (by number or alphabetized)
- Lists of parent/child relationships

Note: A companion disk (PC-SIG Disk # 594) is not necessary to run this disk, but it offers additional functions and smooths out the operation.

(PC-SIG Disk# 90)

Special Requirements: *A version of BASIC.*
Author Registration: *$49.00*

■ Micro-Gene

Want to find out who (or what) is swinging by one hairy arm from the branches of your family tree?? MICRO-GENE is a thorough, comprehensive, well-documented software package to help you develop your family genealogical record. In addition to the data-recording capabilities, it has excellent printing capabilities so you can get hierarchical charts of your ancestors and other quality reports. Menu function selections simplify the use of the system and let you concentrate on the family data rather than system functions.

Note that MICRO-GENE is a sophisticated, reasonably complex package, and the quality of results you get are related to the level of energy expended in learning the program and acquiring data.

(PC-SIG Disk# 1068)

Special Requirements: *Printer.*

Author Registration: *$29.95*

■ Notes and Sources ON DISPLAY

NOTES AND SOURCES ON DISPLAY is an extension of the GENEALOGY ON DISPLAY program (PC-SIG Disk #90) and uses the "persons" file from that program. Enhance and organize the search for your ancestral past by saving notes on each new find. Keep track of your sources of information, the types of information you use, the event date, the research date, and finally, the contents of the "note" itself.

(PC-SIG Disk# 594)

Special Requirements: *A version of BASIC and the "Persons" file from Genealogy ON DISPLAY.*

Author Registration: *$45.00 — $30.00 if a registered user of Genealogy ON DISPLAY.*

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Genealogy ON DISPLAY A menu-driven system to assist you in organizing your family tree. See *Genealogy.*
(PC-SIG Disk# 90)

General Ledger See *Accounting, G/L, A/P, A/R, Payroll.*

Geomancy Programming version of an ancient and honored form of fortunetelling and divination. See *Astrology and Fortune Telling.*
(PC-SIG Disk# 1275)

Geometry See *Math and Geometry Programs.*

Get Lucky! An "Adults-Only" entertainment collection that features trivia and poker. Includes penalties such as taking a drink. See *Entertainment, General.*
(PC-SIG Disk# 711)

Giftwrap Make your own gift wrapping paper with a personalized message written all over. See "Printer Utilities 7" listed under *Printer Utilities.*

Goal Seeker Determine the result you want and this spreadsheet add-on works to show you how to get there. Identify the variables to be changed and the results you need, and let it go! See *Spreadsheet Utilities and Education.*
(PC-SIG Disk# 726)

Golden Wombat of Destiny A text adventure from England. Discover the forbidden city of the great lost empire, or at least don't sink in the mangrove swamp! See *Games, Adventure and Text.*
(PC-SIG Disk# 678)

Golf Arcade Games See *Games, Arcade (Sports).*

Golf, Record Keeping See *Sports Management.*

Gospel Concordance A listing of every word in the four gospels of the Bible and a cross-index of each reference and the passage in which it is found. See *Bible Study.*
(PC-SIG Disk# 1208)

Grab Plus A memory-resident utility that captures an address from the application you are in and prints it on an envelope or label, complete with return address. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1145)

Grader Teachers — GRADER makes statistics that let you evaluate test quality and helps you establish grade breakdowns. See *Teaching, Grading Systems and Record Keeping.*
(PC-SIG Disk# 1071)

Gradescan A menu-driven grade recording system for teachers. Up to 17 classes with up to 50 students can be monitored. See *Teaching, Grading Systems and Record Keeping.*
(PC-SIG Disk# 1233)

Grading and Teaching See *Teaching, Grading Systems and Record Keeping.*

Gramarcy Find the word within the word. The player is given a randomly selected word and challenged to make as many words as possible from that word in the time allotted. All age levels. See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk# 1158)

Graphics Card/Graphics Adaptor A hardware device that allows a computer to process and display graphics as well as text. The devices normally are cards which fit into computer expansion slots. Examples are the CGA, EGA and Hercules graphics adapters.

Graphics Coach for Runners For serious 5K-10K runners of all levels — monitor your training, progress, and plans for improvement. See *Sports Management.*
(PC-SIG Disk# 849)

Graphic Programs See CAD (Computer Aided Design), Presentation Graphics, or Paint and Drawing Programs.

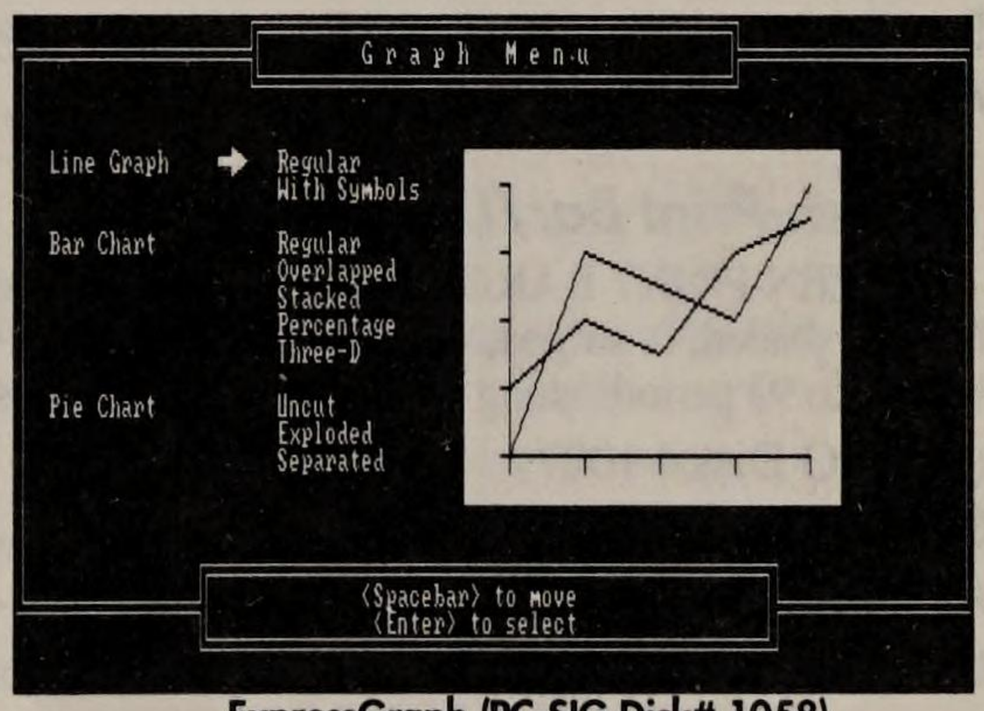
Graphing Programs

■ ExpressGraph

EXPRESSGRAPH is an easy-to-use business graphics program. Numbers can be analyzed much more easily and quickly when they are displayed in graphic form. It lets you display numbers in a variety of graphic formats. Then you can choose the display you like best, and print your graph.

Here are some examples of how people use EXPRESSGRAPH:

- Graphing sales dollars and gross profit on a weekly basis
- Displaying financial data graphically
- Analyzing budgets and expenses with a pie chart
- Spotting trends amid a "sea of numbers"
- Providing summarized data in graphic form to accompany financial statements, for quick analysis and trend spotting



ExpressGraph (PC-SIG Disk# 1058)

The data for the graph can be imported from one of three formats, including DIF, or entered from within EXPRESSGRAPH. Save the data on disk and reload later for further changes or review. Graphs created with EXPRESSGRAPH can be displayed in one of 10 graphic formats (pie, line, bar, etc.), altered in various ways, and printed.
(PC-SIG Disk# 1058)
Special Requirements: *None.*
Author Registration: *$49.00*

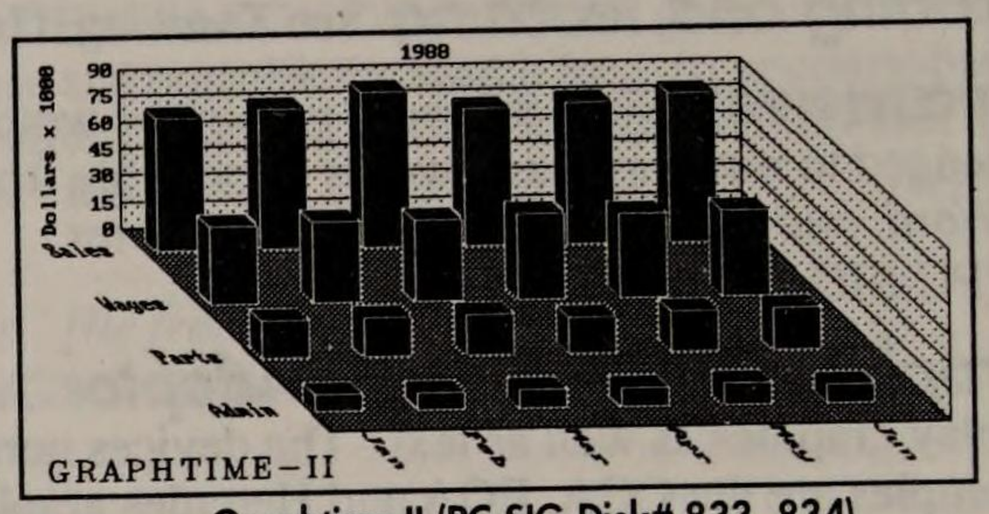
■ Graphtime II

GRAPHTIME II is a business-presentation graphics program. GRAPHTIME II does various line, column, and pie charts. The charts can be printed or plotted, viewed individually, or set up to run as an unattended "slide show" on the monitor. It accepts data from dBase II/III, Multiplan, and Lotus 1-2-3, or you can enter data directly. It has a font editor, macro editor, and math functions including moving averages. There is even an "undo" function. A Microsoft mouse (or compatible) is recommended.

This version will plot 24 data points and will print "paint" files, but will not save them.
(PC-SIG Disk#'s 833, 834)
Special Requirements: *Hercules graphics.*
Author Registration: *$39.00*

■ Graphtime-II

GRAPHTIME-II is a business and technical graphics system with text and font editors. Designed for use with dBase II/III, Multiplan, Lotus 1-2-3 and ASCII files, it can also be used on its own with data entered from the keyboard into the built-in spreadsheet.



Graphtime II (PC-SIG Disk# 833, 834)

The package consists of six main modules:

- GRAPH - 18 types available with up to 10 graphs per screen
- DRAW - Full-screen color graphics editor
- FONT - Text generator and font editor
- FILE - External file input
- TEXTED - Text and macro editor
- PRINT - Printer driver

The graphics editor can create free-form diagrams or enhance a previously made graph. You can select arrow keys, joystick, or mouse to control the graphics cursor.

GRAPHTIME-II can be either menu- or command-driven, with an emphasis on ease of use. All scales and labels are made automatically with manual override. A macro facility is included for commonly used command sequences and to control slide shows. Macros can also be created by recording a sequence of commands as they are used.

(PC-SIG Disk#'s 669, 670)
Special Requirements: *320K RAM, two floppy drives, and CGA or EGA.*
Author Registration: *$43.00*

■ Screen-Print Bar/Line Graph

SCREEN-PRINT BAR/LINE GRAPH makes bar or line graphs that you can display on the screen or print. Bars can be hollow, shaded, or striped, while line graphs can be solid or broken. Label the chart and both the X and Y axes. Charts are limited to 93 periods along the X-axis, but you can specify the maximum value of the Y-axis.

(PC-SIG Disk# 1027)
Special Requirements: *CGA.*
Author Registration: *$5.00*
User Comments: *"Best shareware amortization table I've seen. Better than some commercially sold."*

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Graphtime II Create diagrams, graphs, and drawings for use with dBase II/III, Multiplan and Lotus 1-2-3. See *Graphing Programs.*
(PC-SIG Disk#'s 833, 834)

Graphtime-II Create diagrams, graphs, and drawings for use with dBase II/III, Multiplan, and Lotus 1-2-3. See *Graphing Programs.*
(PC-SIG Disk#'s 669, 670)

Greatest Arcade Games Save your quarters! This collection of arcade games includes: Flightmare for space jockies, Jumping Joe for Mario types, Spacewar for battling star ships, and Striker for fighter pilots! See *Games, Arcade.*
(PC-SIG Disk# 457)

Greetingware for Christmas and Birthdays A greeting card that won't get thrown in a shoebox after the occasion is over. Send your friends and relatives a customized electronic birthday or Christmas card-on-a-disk! See *Entertainment, General.*
(PC-SIG Disk# 839)

Grocery Keep a list of grocery items you buy, arranged in the floorplan of your favorite store. Select the items for a shopping trip and print your grocery list organized in aisles. See Food and Drink Preparation.
(PC-SIG Disk# 856)

Grocery Shopping See *Home Management*.

GT PowerComm A powerful, yet uncomplicated, telecommunications program with all the bells and whistles. See *Communication Programs*.
(PC-SIG Disk#'s 782, 783)

GW-BASIC A BASIC interpreter that is the MS-DOS equivalent of BASIC or BASICA on the IBM PC. Most BASIC programs work with either interpreter. For programs see *Programming, BASIC*.

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H&P Calendar H&P CALENDAR creates a monthly calendar on screen with graphic designs or a yearly wall calendar without graphics. See *Schedulers, Calendars, To Do Lists, and Ticklers*.
(PC-SIG Disk# 995)

Hack Keys This RAM-resident keyboard mapper and accompanying database are helpful tools for the Hack (PC-SIG disk #452) gameplayer. On-line reference for all the complicated details of the game and helpful hints. See *Games, Adventure and Text*.
(PC-SIG Disk# 1417)

Hack, The Amulet of Yendor Hack your way through dungeons filled with monsters and treasure galore, in this game of entrapping fun! Warning: very addictive! See Games, Adventure and Text.
(PC-SIG Disk# 452)

Hal9000 The mad computer from "2001, A Space Odyssey" is back complete with music from the sound track. Now he's a clock/calendar and an almanac with a sense of humor. See *Desktop Organizers*.
(PC-SIG Disk# 1242)

Ham Radio A collection of useful programs for the Ham Radio fan such as three Morse code programs and routines to design antennas and find satellites. See *Ham Radio*.
(PC-SIG Disk#'s 436, 437)

Ham Radio Three technical programs to help the amateur radio fan. Calculate Smith Chart impedance matching, ground-wave communications ranges, and expected communications ranges (in nautical and statute miles). See *Ham Radio*.
(PC-SIG Disk# 1420)

Ham Radio

■ Ham Radio

Ham it up! Learn and practice your Morse with the variable speed sender and receiver programs. Other routines help the amateur radio operator compute various electronic formulas, design antennas, locate satellites, and calculate orbits. RTTY and TTY are communication programs using Baudot, ASCII, or Morse code at varying speeds.

The USAT program provides real time tracking of the OSCAR 9, 10, and 11 and the RS 5, 7, and 8 satellites; the user specifies the date, time, length of time, and tracking interval. Several programs calculate coil inductance, coil properties, signals for varying frequencies, resistance, and reactance. NETWORK provides analysis of user-specified circuits, to aid the amateur radio or electronic user. The great circle distance between any two points is computed by GRCIRDIS when the latitudes and longitudes are entered. An alphabetized list of all of the counties in each state can be found in the COUNTIES files.

(PC-SIG Disk#'s 436, 437)

Special Requirements: *A version of BASIC.*

Author Registration: *None.*

File Descriptions:

ASCTTY	BAS	Transmits & receives 110 baud ASCII for TTY22.BAS.
BAUDOTC	EXE	Demo of communication program.
CQ	BDT	CQ message for TTY22.BAS.
CWID	BDT	CW identification for TTY22.BAS.
CWRCV	BAS	Copy EIA RS232C Morse code to screen.
CWRCV	HLP	Description of CWRCV.BAS.
EZCODE1	BAS	Learn & practice Morse code for amateur radio license.
FINDSAT	BAS	Azimuth & elevation to a synchronous satellite.
HAMCALC	BAS	Computes miscellaneous electronic formulas.
HAMHELP	BAS	Computations to aid in ham radio operations.
HAMMODEM	BAS	Modem demonstration (ham radio or phone line).
LISTCOUN	TXT	Alphabetical list of counties in each state.
MORSE1	BAS	Morse code practice program, variable speed.
MORSE2	BAS	Morse code generator, variable speed.
OPTICS	COM	Pascal compute parameters of a reflecting telescope.
OPTICS	PAS	Pascal compute parameters of a reflecting telescope.
OSCAR	BAS	Calculates satellite orbits.
PARABOLA	BAS	Design of parabolic antenna reflector.
RTTY	DOC	Description of RS-232C interface.
RTTYSUBS	BDT	RTTY unit.
RTTYTALK	BAS	Transmit/receive, AEA CP-1 interface (like PC TALK-III).
RTTYTALK	DOC	Documentation for RTTYTALK.BAS.
RYT	BDT	RY message for TTY22.BAS.
SATFIND2	BAS	Locates TV satellites for given cities or locations.
SATFIND4	BAS	Locates TV satellites for given cities or locations.
TTY	BAT	Gets date and time.
TTY	DOC	Description of TTY22.BAS & updates.
TTY22	BAS	TTY transmit and receive program.
VHF-YAGI	BAS	Calculates dimensions of VHF Yagi antenna.

User Comments: *"Useful. Easy to use. Many good programs. A big help to any ham radio guy."*

■ Ham Radio

HAM RADIO offers three fairly technical programs to help the enthusiastic amateur radio hobbyist.

SCHART is a Smith Chart impedance matching program. Given a load impedance, the program calculates new input impedances for any combination of passive matching elements you choose. Outputs are listed in tabular form with resistive and reactive values given for each frequency of operation. If you want to analyze the impedances as a function of frequency, a graphics option is included which draws a Smith Chart and plots the impedances.

HFPROP calculates expected ground-wave communications ranges (in miles) from 3.5 to 50 MHz based on inputs of frequency, transmitter power, receiver sensitivity, antenna parameters, and type of terrain.

VHFPROP computes expected communications ranges (in nautical and statute miles) from 100 MHz to 3.5 GHz based on inputs of frequency, transmitter power, receiver sensitivity, and antenna parameters. Specs are included for ground-to-ground, ground-to-air, and air-to-air applications plus free-space line-of-sight information useful for satellite communications predictions.

(PC-SIG Disk# 1420)

Special Requirements: *CGA.*
Author Registration: *$15.00 and $20.00 foreign.*

■ KB0ZP Super Contest Log

KB0ZP CONTEST LOG is an amateur radio contest logging program to help the radio operator in logging contest information in a suitable form for submission for awards. After entering the other station's call sign, you have the option of entering two more pieces of information (RST, Section, Grid Square, etc.). The CONTEST LOG takes over from there.

It dupes, calculates your score, and saves to disk or printer or both. The main screen shows date and time, name of contest, your station call sign, grand total number of contacts made by mode and band, elapsed time from last contact, total accumulated score, and the amount of free space available in RAM. Up to 4000 contacts can be made. Help screens show useable frequencies by band, class of license, and section abbreviations. All contacts can be listed on the screen during the contest for viewing and correcting. A "hurry up timer" can be set to time your contacts. The arithmetic for automatic scoring can be changed to suit the contest.

KB0ZP CONTEST LOG print program prints a list of the contacts made in almost any form you want, for submission for awards. It is to be used after the contest and at your leisure.

(PC-SIG Disk# 1096)

Special Requirements: *A hard disk and printer.*
Author Registration: *$25.00*

■ MiniMuf

A MUF calculator for the amateur radio operator.

MINIMUF computes the Maximum Usable Frequency (MUF) for specified paths for a 24-hour period given in GMT (UTC). The program gives the MUF for one path and draws a graph. You can select from 15 pre-programmed paths or you can enter the latitude and longitude coordinates for any path in a setup data file. The graph is displayed in the text mode so it can be printed on all IBM compatible printers.

(PC-SIG Disk# 1315)

Special Requirements: *IBM printer or compatible.*
Author Registration: *$20.00*

■ Morse

MORSE is a workable code-practice program for anyone who wants to learn Morse Code for their Amateur Radio Operator's license.

The program creates random-text groups of five characters each, then sends them in Morse code with the cursor underlining each word as it is sent. MORSE also sends individual random letters well spaced in time and reads text files prepared by your wordprocessor in capitals, then sends the text line-by-line.

(PC-SIG Disk# 939)

Special Requirements: *None.*
Author Registration: *None.*

■ PC-Ham

PC-HAM is a set of amateur radio database programs to use with a computer in amateur radio. The program is based, in part, on programs described in, "Software for Amateur Radio," by Joe Kasser (G3ZCZ) and published by TAB Books.

PC-HAM has several features that are invaluable to any amateur radio operator with a computer. Some of the program's capabilities include:

- Display/print of your QSOs sorted by call-sign, alphanumerical order
- Search for and display of all QSOs with a specified prefix

- Automatic generation of your DXCC status
- Direct updating of award records from the log entries
- Analyze contest QSOs for duplicates and scoring contacts
- Automatic QSL 100% (after a contest or DX-Pedition) to all stations worked for one contact on each of five bands

(PC-SIG Disk# 562)

Special Requirements: *A hard drive, a version of BASIC, and dBASE II.*
Author Registration: *$36.50*

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Handicapping, Horse Racing See *Gambling*.

Handwriting Analyst HANDWRITING ANALYST asks you several questions about a person's signature, and then produces a summary or detailed report on that person based on your responses. See *Writing and Composition Aids*.
(PC-SIG Disk# 1050)

Hangman Electronic version of that childhood favorite — Hangman. Four different variations and two levels of difficulty. Create your own games. See Spelling, Word, and Vocabulary Quizzes and Games.
(PC-SIG Disk# 153)

Hard Disk Management A trio for hard disk management — AUTOMENU guides you around the maze of DOS commands; DISK TOOL looks at and makes changes to your hard disk; and PACKDISK arranges the space on your disk efficiently. See *Hard Drive Utilities*.
(PC-SIG Disk# 786)

Hard Disk Menu III A DOS menuing system which helps you to create your own macros to run a customized hard disk menu system. Password-protect your sensitive files. See *Menu Programs*.
(PC-SIG Disk# 631)

Hard Disk Utilities Hard-to-find utilities for getting along with your hard drive. Sort directories, undelete lost sectors, make secret directories, and know which files are not backed up. Also included is a global file finder. See *Hard Drive Utilities*.
(PC-SIG Disk# 478)

Hard Drive Utilities

■ Hard Disk Management

This disk is meant to be used with the book "Hard Disk Management with MS-DOS and PC-DOS," from TAB Books. The book gives you tips on how to run your hard drive at top efficiency. The following programs are included on this disk:

AUTOMENU — This is the solution to learning all the DOS commands to access different programs. No longer will you have to type in a list of commands to find the program you are looking for. With a single press of a key, almost any program can be made available. AUTOMENU gives you an easy-to-read and understandable menu of options to choose from. It automatically does the commands to run the program you have selected. AUTOMENU also lets you set up your own customized menu systems.

DISK TOOL — This program lets you look at and make changes to what is stored on your disks. You can work with individual files or the disk as a whole, and perform operations you normally couldn't do with DOS. In short, it lets you manipulate everything on your disks easily and with very few restrictions.

PACKDISK — You can keep your hard disk running at top performance by filling those empty sections on your hard drive with data from the outer edges of your hard disk. PACKDISK reintegrates lost clusters (file allocation units) into the available space on the disk and packs the root directory and subdirectories. It also has other features, such as an option to delete an entire subdirectory with one easy command, a HIDE/UNHIDE program, and a program to create a RAM disk in your computer's memory. And when you get to the point where you have too many subdirectories on your hard drive to keep track of, use the TREED program to map them all out on your screen.

And for that valuable information on your hard drive that you don't want anyone to touch, there is the LOCK program. This protects your data safely from accidental (or deliberate and unauthorized) viewing or editing.

(PC-SIG Disk# 786)

Special Requirements: *Hard drive.*

Author Registration: *$20.00 to $50.00.*

User Comments: *"Excellent utilities." "Loaded with goodies. PACKDISK takes a while to run but it unites noncontiguous file clusters like nothing else." "The most valuable compendium of utilities I've gotten in one package."*

■ Hard Disk Utilities

This is a collection of utilities for the hard disk drive user that was compiled from over 25 disks in our library. Some of the most famous: ALTER, used to change your file attributes; DISKPARK, for positioning your hard disk drive in the safety zone; and BACKSTAT to find out which files need to be backed up.

(PC-SIG Disk# 478)

Special Requirements: *None.*

Author Registration: *$5.00 to $50.00.*

File Descriptions:

ALTER	COM	Utility to change file attributes (Hidden/Readonly/etc).
ALTER	DOC	Documentation for ALTER.COM (4k).
BACKSTAT	EXE	Tells you which files need to be backed up.
CATALOG	COM	Make a sorted directory.
CDSECRET	COM	Go to a "secret" sub-directory.
DD	BAT	Sort directory by date (PART OF DNXSD.BAT).
DIR2	BAS	BASIC version of a directory sorter.
DISKPARK	DOC	Documentation for DISKPARK.EXE (1k).
DISKPARK	EXE	Position the hard disk drive head in a safety zone.
DISRTN	EXE	Undeletes and recovers lost first sectors.
DN	BAT	Sort directory by name (Part of DNXSD.BAT).
DNXSD	DOC	Documentation for sorting directory.
DS	BAT	Sort directory by size (Part of DNXSD.BAT).
DX	BAT	Sort directory by extension (Part of DNXSD.BAT).
DXSAVE	BAT	Sample change in .BAT to save sorted directory to disk.
FREE	COM	Displays amount of actual free space on hard disk.
GCOPY	DOC	Documentation for GCOPY.EXE (1k).
GCOPY	EXE	Menu type selective copy program.
GDEL	DOC	Documentation for GDEL.EXE (1k).
GDEL	EXE	Menu type selective delete program.
MDSECRET	COM	Make a "secret" sub-directory.
NDOSEDIT	COM	VM style editor for DOS commands.
NDOSEDIT	DOC	Documentation for NDOSEDIT.COM (5k).
POKING	TXT	Text file containing locations of information about disks.
RDSECRET	COM	Remove "secret" sub-directory.
READONLY	COM	Make a file read-only to make it un-erasable.
READONLY	DOC	Documentation for READONLY.COM.
READWRIT	COM	Return a read-only file back to normal read/write status.
READWRIT	DOC	Documentation for READWRIT.COM.
SDIR5	COM	Utility to list files by types and different formats.
SDIR5	DOC	Documentation for SDIR5.COM.
SEARCH	COM	Useful replacement for DOS path command.
SEARCH	DOC	Documentation for SEARCH.COM (2k).
SECRET	DOC	Documentation for RDSECRET, MDSECRET, and CDSECRET.
TREED	COM	Make a directory tree.
UNDEL	COM	Recovers erased files.
UNDO	BAS	Allows fixed disk users to read backup diskettes.
VDL	COM	File deletion utility.
VDL	DOC	Documentation for VDL.COM (2k).
VIEWDISK	DOC	Documentation for VIEWDISK.EXE.
VIEWDISK	EXE	Look at individual disk sectors.
WHEREIS	COM	Find a file on the hard disk regardless of location.
WHEREIS	DOC	Documentation for WHEREIS.COM (1k).
WRT	DOC	Documentation for WRTE.COM and WRTP.COM.

WRTE	COM	Make a read-only file copyable.
WRTP	COM	Make a read-only file.
DIARY	COM	System use logging program.
ADD	BAT	Batch file used by DIARY.COM.
LST	BAT	Batch file used by DIARY.COM.
OFF	BAT	Batch file used by DIARY.COM.
SEE	BAT	Batch file used by DIARY.COM.
READ_ME	1ST	Introductory text file for DIARY.COM.
PASSWORD	DOC	Documentation file for PASSWORD.EXE.
PASSWORD	EXE	Protect your system with a password.

User Comments: *"Good utilities." "Excellent set of utilities, especially CDSECRET for secret sub-directories. WHEREIS is excellent." "Good selection of utilities, especially the NDOSEDIT." "Great Value. Great assortment of utilities."*

■ Packdisk Utilities

PACKDISK utilities is a handy collection for file, floppy, and hard disk management. Clean up your act!

DELDIR — Deletes a subdirectory with its files and subdirectories.

LISTFRAG — Lists all fragmented files in the drive.

NAMEDIR — Renames a subdirectory.

PACKDISK — Eliminates file fragmentation in the drive.

PACKDISK— Eliminates unallocated spaces between files.

PACKDISK— Reintegrates lost clusters (file allocation units) into available disk space.

PACKDISK— Packs the root directory and subdirectories; frees trailing clusters.

TRANSDIR — Transfers a subdirectory and its files and subdirectories into another directory in the same drive.

PARK — Parks disk head before power off.

(PC-SIG Disk# 610)

Special Requirements: *None.*

Author Registration: *$30.00*

User Comments: *"Excellent utilities for use with directories." "Use regularly. Good park program."*

■ Point & Shoot Backup/Restore

Finally a program that makes backing up your hard disk so simple you'll wonder why you didn't buy POINT & SHOOT BACKUP/RESTORE sooner.

POINT & SHOOT BACKUP/RESTORE is a companion program for the Point & Shoot Hard Disk Manager (PC-SIG Disk# 930) but can also be used as a stand-alone product. It provides fast, easy backups of your hard disk data to floppy disks. Your involvement is minimized in the backup and/or restore process. If you own a hard disk, POINT & SHOOT BACKUP/RESTORE is a necessity.

POINT & SHOOT BACKUP/RESTORE currently supports the following functions:

- Up to 10 user-defined backup configurations, each of which may contain a list of up to 10 subdirectory backup sources. Each backup source directory may include trailing directories for complete flexibility in backup definitions
- Each backup definition allows selection of matching file specs, modified files only, and optional disk formatting during the backup process. A graphic directory tree display assists in the selection of backup source directories
- Files remain intact on backup disks (except when disk boundaries must be crossed)
- Required number of backup disks are automatically calculated
- Restoration options include source drive, restoration to other than the original path, prompts for duplicate or modified files, and selective file restoration. Again, a graphic directory tree assists in selection of restoration paths
- Configuration options include colors, an hourly chime, and last drive designation
- Supports 360K and 1.2MB 5-1/4", 720K and 1.44MB 3-1/2" floppy disks

(PC-SIG Disk# 1188)

Special Requirements: *Hard drive.*

Author Registration: *$35.00*

➤***ASP member.***

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Hardware The physical parts of a computer and its peripherals. Anything you can touch such as disk drives, keyboards, printers, etc.

HDBCalc 16-bit calculator handles hex, decimal and/or binary computation and logical SHR, SHL, AND, NOT, XOR, and OR functions. A programmer's delight! See *Calculators.*
(PC-SIG Disk# 1385)

HDSentry Sets itself up in memory and monitors all commands sent to the hard drive of your system. If the command is harmful in any way, you will be prompted. See "FLU-SHOT+ and More" listed under *Security — File, Disk, or System*

Hdtest Performs a read/write test on your hard disk without disturbing the data on it. Get early warning of disk trouble. See *Utilities, System or Hardware.*
(PC-SIG Disk# 1209)

Health Management

■ Biorhythm Monthly Schedule Program

Many people believe that the human body experiences a number of cycles every month or so. Three major cycles run simultaneously but have differing periods so that one cycle may be expressing the beginning of a curve while another will be at the peak of its own curve at the same time. It is believed that the overlapping and timing of these cycles or curves can be used to predict how you will perform in the future.

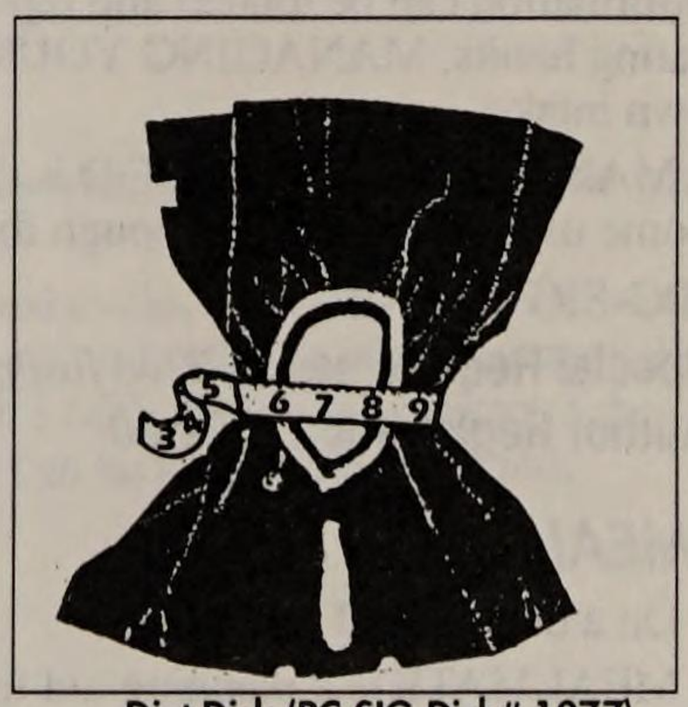
BIO can calculate these biorhythm cycles for any person born after the year 1753. The physical, emotional and intellectual cycles are marked by letters in columns for each day of the month, each letter showing how high or low that particular cycle is. An asterisk indicates a critical day for that cycle.

BIOCOMP.EXE compares the biorhythms of two persons, and will display the percentage of compatibility for each cycle.
(PC-SIG Disk# 879)
Special Requirements: *None.*
Author Registration: *$25.00*

User Comments: *"Very good documentation." "A good monthly report card. The biorhythmic compatibility chart is interesting and entertaining." "I like the way biorhythm grades—A, B, C, D, E—rather than using a chart."*

■ Diet Disk and Weight Control

WEIGHT CONTROL has several utilities to help you lose weight. The programs can test your dieting skills through a questionnaire; calculate your average weight loss over a period of dieting; calculate how long it will take to lose a certain amount of weight depending on how much weight you believe you will lose each week; and calculate how many calories of food to take daily to maintain or lose your weight. Also included is a diet shopping list with a list of foods and their calorie amounts. Choose items on the list to make a shopping list you can print. Three short essays on the principles of dieting, reasons to diet, and dieting at home alone are also included.
(PC-SIG Disk# 1077)
Special Requirements: *None.*
Author Registration: *$20.00*



Diet Disk (PC-SIG Disk# 1077)

■ Health Risk

A PC conversion of the CDC Health Risk appraisal program that helps medical and health-care professionals — doctors, nurses, public health administrators, etc. — continue to deliver quality care.

A questionnaire helps you assess and evaluate risks to the patient's health. This program should only be used by qualified health professionals who have the experience and training to adequately interpret individual results.

For further information on HEALTH RISK, contact the Center for Disease Control directly in Atlanta, Georgia.

(PC-SIG Disk# 192)

Special Requirements: *None.*

Author Registration: *None.*

■ Insulin

INSULIN, BOTTLE, and NO6 are computer tutors that can teach student nurses to determine IV rates and measure insulin dosage correctly. Repetition of the task with simple on-screen instructions, explanations, and user-response feedback makes it easy to learn with these programs.

MAKEFILE is a complimentary program to INSULIN that allows for entry of new insulin dose values or viewing of students' names and scores. Determining IV rates for both plain solutions and medication additive solutions are covered.

(PC-SIG Disk# 1311)

Special Requirements: *None.*

Author Registration: *$5.00*

■ Kinetics

KINETICS calculates dosages of several commonly used drugs such as Aminoglycosides, Theophylline, Heparin, and Vancomycin. Estimate initial doses based on calculated lean body weight, body surface area, and/or creatinine clearance. Calculate individualized maintenance dosage based on serum-level data.

Included are general drug-dosing recommendations for 82 drugs which require dosage reduction in patients with diminished renal function. Print a chart-ready dosing consultation form. KINETICS also features a comprehensive patient database management.

These programs should be used by a clinical pharmacist or a physician with training in pharmacokinetic dosing of drugs.

(PC-SIG Disk# 947)

Special Requirements: *CGA.*

Author Registration: *$100.00*

■ Managing Your Food

MANAGING YOUR FOOD (MYF) gives you complete control over your diet. Plan your shopping list according to cost and nutritional value.

The ingredients files provided with MYF contain all the fat, carbohydrate, calorie, protein, and percentages of each of 300 ingredients. The files can be modified to include other foods that are a part of your usual diet.

Using your own recipes, you can find the nutritional information and cost for all ingredients in a meal. The information can be totaled and reported in appropriate percentages. Since you enter the information about your eating habits, MANAGING YOUR FOOD is customized to you. It's not just another diet, but a way to plan your own intake.

MANAGING YOUR FOOD is designed for use by food manufacturers, restaurant managers, dietitians, and the home user. It is friendly enough for novice and comprehensive enough for the professional dietitian.

(PC-SIG Disk# 1056)

Special Requirements: *Two floppy drives.*

Author Registration: *$29.00*

■ MEALMATE

On a diet? Need some help?

MEALMATE is a planning aid for preparing meals for people on a carefully controlled diet. Although primarily designed for those 10% of us who are diabetic, it can be a big help to anyone preparing meals that have to meet strict requirements for calories, proteins, carbohydrates, and fats. In today's health and nutrition-conscious society, that means everyone including you and your family.

Combine information from meal plans or menus to verify the total nutritional content of a meal. Can't look another head of lettuce in the eye? Help is provided to plan more varied meals and to choose substitutes for disliked or hard to find items.

Let's face it. Nothing's going to make a diet fun but at least you can get help with some of the more dreadful aspects. MEALMATE is easily operated and presents nutritional information on many common foods.

Pass the salad, please.

(PC-SIG Disk# 700)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Nutritionist, The

Put down that Twinkie and pick up THE NUTRITIONIST, a high-powered package for health-conscious hackers!

THE NUTRITIONIST has just about everything you could possibly want to know about bringing health and nutritional balance into your daily diet.

Massive amounts of useful data are provided. Some topics covered are food items, caloric content, ideal body weight, minimum daily requirements (MDRs), meal planning, calorie consumption calculations for various types of physical activity, portion planning, and recipe creation. A handy printer routine uses condensed type to print on tractor-feed 4X6-inch file cards for easy kitchen counter reference. Give THE NUTRITIONIST a look if you want a full-featured package for improving dietary habits.

If you're not going to eat that Twinkie...

(PC-SIG Disk# 1148)

Special Requirements: *Hard drive.*
Author Registration: *$25.00*

■ Parents Home Companion: Managing Colic

This installment from the multi-part PARENTS HOME COMPANION (PHC) series is based on managing colic problems in infants. The PHC series provides parents and those responsible for childcare with expert assistance in a range of commonly encountered problems.

The need for documentation has been eliminated in the PHC series through the program's structure. This is similar to the "expert systems" seen in artificial intelligence applications, in which you are guided from screen to screen by your answers to questions.

(PC-SIG Disk# 1100)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Pregnant

PREGNANT can help a woman with unstable menstrual cycles track the times when she is most likely, and least likely, to become pregnant.

PREGNANT takes into account age, height, weight, the dates of each menstrual cycle, and body temperature for each day of the past two months. It then displays on the screen the average length and stability of the menstrual cycle and the period of ovulation. Using this data, the program can predict with a high degree of accuracy when the next menstrual and ovulation periods will begin. Data for up to two people can be stored and analyzed.

(PC-SIG Disk# 1325)

Special Requirements: *CGA.*
Author Registration: *$25.00*

■ Weight Control

WEIGHT CONTROL is a collection of dieting utilities to help you in your weight-loss program.

Assess your dieting habits through a questionnaire. Calculate your average weight loss over a period of time; how long it will take to reach a certain weight based upon the amount lost each week; daily caloric intake to maintain or lose weight; and how many calories you have been consuming each meal of the day. A printout may be obtained for the calculations concerning your average weight loss and your calorie consumption.

(PC-SIG Disk# 1325)
Special Requirements: *CGA.*
Author Registration: *$20.00*

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Health Risk An electronic health maintenance program written by a doctor. Answer questions and determine the state of your health. See *Health Management.*
(PC-SIG Disk# 192)

Heart Another good version of Pac Man. If you can eat all the dots on one board you are given a new board that is harder to handle than the last. See "Game Series 21" listed under *Games, Arcade.*

Hebrew Quiz and Tutorial A Biblical Hebrew language tutor that teaches the alphabet, vocabulary, verbs, and grammar. See *Language Study, Foreign.*
(PC-SIG Disk# 902)

Hebrew, Educational See *Language Study, Foreign.*

Help, Help Screen The instructions or advice given by a program while the program is in operation. Sometimes help screens are an automatic part of the program operation. In other cases, help can be called by pressing a certain help key (many times F1).

HelpDOS A "help system" for learning and using the commands and function of DOS. See *DOS and PC Training and Education.*
(PC-SIG Disk# 686)

Hercules Emulate a CGA card on a Hercules Graphics adapter. Run CGA programs such as PC-Paint, Printmaster, Flight Simulator and many others. See *Utilities, System or Hardware.*
(PC-SIG Disk# 641)

Hercules Graphics Card A circuit board enabling a computer to display enhanced graphics on a monochrome monitor. Most graphic programs can work on either the actual Hercules card or a Hercules compatible card.

Heritage Church System Record membership and contribution data for your church. Entries can be made for families in general, and for each individual in a family. Mail merge capabilities work with PC-WRITE and Microsoft Word. See *Church Administration.*
(PC-SIG Disk# 881)

Hexadecimal A base-16 number system often used in computer software and hardware.

HGCIBM HGCIBM provides owners of Hercules monochrome graphics cards with a means to run software written for the IBM Color Graphics Adapter. See *Utilities, System or Hardware.*
(PC-SIG Disk# 870)

Hide_MD Have a simple-to-use security utility on your computer. Make a subdirectory that cannot be seen when using the DIR command. See "Dos Utilities 16" listed under *File Management Utilities.*

Hierarchical Databases See *Databases.*

High Point An aid to judges at meets, sporting contests, and other competitive events. Calculate current and final standings in many levels of competition. See *Sports Management.*
(PC-SIG Disk# 1315)

Hire A very handy program for personnel people. Maintain records of job applicants, use the rating feature to evaluate each, and send professional letters. See *Personnel Management.*
(PC-SIG Disk# 1004)

History, Education

■ Presidents, The

Test your knowledge of each U.S. president. In the first part, view the biographies of each president on the screen. You can page through the text, search for a particular word or phrase, and write parts of the bibliography to other disk files.

The second part quizzes and tests on the biographies of the presidents using 20 multiple-choice questions. Typical questions include: the president's name, sequence, inaugural year, birthdate, party affiliation, political party, state affiliation, and eventful associations. Several versions can be produced on the screen or sent to the printer, each with its own answer key.

(PC-SIG Disk#'s 1065, 1066)

Special Requirements: *Hard drive.*

Author Registration: *$10.00*

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Hogbear Adventure Game Update of the classic CASTLE. Text and graphics combine in this adventure as you search through the mansion, avoiding the awful creatures and collecting the necessary tools. See *Games, Adventure and Text.*
(PC-SIG Disk# 1269)

Home Accounting See *Accounting, Checkbook Management — Home.*

Home Applications Area code finder, Haiku maker, guitar tuning, biorhythms, checking account balancer, monthly calendar printer, and more! BASIC source code included. See Home Management.
(PC-SIG Disk# 321)

Home Budget Management System A double-entry ledger system designed for the maintenance of household expenses and includes a budgeting function and an audit trail. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 1302)

Home Insurance Home inventory and recordkeeping to record and value your belongings and efficiently verify a claim. Also included is a life insurance estimator. See *Home Management.*
(PC-SIG Disk# 796)

Home Inventory See *Home Management.*

Home Inventory Program Keep a database of your important possessions for insurance claims or just to find things. Menu-driven. See *Home Management.*
(PC-SIG Disk# 1349)

Home Management

Home Management II Home checking account manager, budget planner, typewriter, loan and interest calculator, and stock portfolio manager — all in one! See Accounting, Checkbook Management — Home.
(PC-SIG Disk# 1108)

■ Coupon

The GROCERY STORE COUPON ORGANIZER SYSTEM keeps track of grocery store discount coupons. Coupons can be added, modified, deleted, or just browsed through. There is also a feature to delete all the coupons that expire before a user-defined date.

(PC-SIG Disk# 724)

Special Requirements: *None.*

Author Registration: *$15.00*

■ Gardener's Assistant

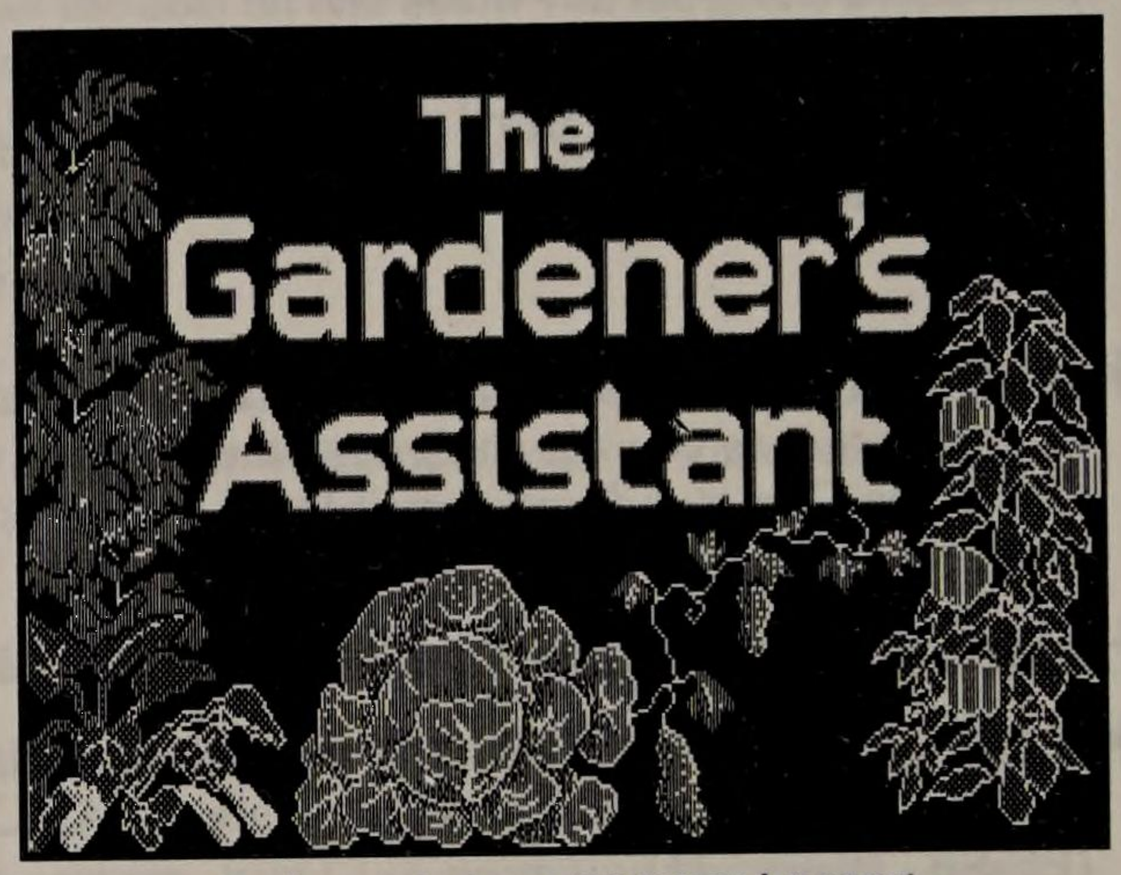
This is a system for planning a garden. Describe where you live, the size of your garden, and choose the vegetables and fruits you want to grow. THE GARDENER'S ASSISTANT helps you to:

- Calculate how many of each type of plant you need to grow in order to yield a certain sized crop
- Design your garden layout while considering space availability, planting density, and expected yield
- Calculate planting dates and expected harvest times
- Add to/modify planting information and vegetable chart

THE GARDENER'S ASSISTANT is easy to use and can be a valuable tool for designing and managing your garden.

(PC-SIG Disk# 1125)

Special Requirements: *None.*
Author Registration: *$25.00*



Gardener's Assistant (PC-SIG Disk# 1125)

■ Home Applications

HOME APPLICATIONS has such a wide range of programs that almost everyone will find something of interest. BASIC source code is included.

Programs included:

- An International currency exchange program
- An alarm clock
- An Area Code finder
- A Stock growth, rate and projections program
- Determine your Biorhythms
- Print monthly calendars
- Evaluate stock calls
- Checkbook manager
- Data Encrytion/Decryption
- Decision making programs
- Guitar-tuning program
- Home Inventory Tracking
- Hurricane tracking program
- Calculate satellite angles
- IRA calculations
- NFL point-spread calculator
- Lottery number generator
- Sound Effects generator
- Astronomical Calendar
- Astronomical and astrological calculators
- Temperature Conversion program
- Weather records and statistics

(PC-SIG Disk# 321)

Special Requirements: *A version of BASIC.*
Author Registration: *$35.00*
User Comments: *"Interesting disk with a little bit of everything." "Some very useful applications. Especially liked Biorhythm."*

■ Home Insurance

HOME INSURANCE lets you keep track of what you own, where items are located, and how much it would cost to replace any items if lost or stolen. Unfortunately, most of us do not find out how much property insurance we need until after we suffer a major loss. All too often it isn't until then we discover that our insurance coverage, although based on replacement value, was not sufficient to cover the complete loss. Or, worse yet, we discover we are unable to document the true value of our possessions, resulting in a reduced and sometimes insufficient claim return.

HOME INSURANCE gives protection against these tragedies in several ways. First, it helps you determine whether or not you have adequate property insurance by comparing the actual replacement values for your possessions against the given limits in your policy. For example, many policies limit the coverage for special items such as jewelry, collectibles (coins, stamps, plates, dolls, etc.), guns, and furs. You categorize items by type, including the total replacement value of each, and HOME INSURANCE lets you easily compare these amounts with the limits specified in your policy.

HOME INSURANCE holds 10,000,000 entries, provides over 250 possible cross references, and is completely menu-operational. It is easy to learn and simple to use. Three user-selectable levels of operation and user-customized field names let you modify HOME INSURANCE to meet individual requirements.

(PC-SIG Disk# 796)

Special Requirements: *None.*
Author Registration: *$59.95*
User Comments: *"I love it. I'm recommending it to all my friends. My insurance agent recommends it to his customers who own PCs."*

■ *Home Inventory Program*

The HOME INVENTORY program lets you keep a database of your important possessions. The number of entries is limited only by disk space. HOME INVENTORY is completely menu-driven and very easy to operate. You begin by creating a new inventory file or loading an existing one. Then choose 'add a record' to add records to the database. It's just that simple to build your own home inventory database. You can change or delete a record in the database with the 'find a specific record' option. There are also three search options: search on the item description field, a specific field, or all fields. Print options are also provided for a listing of your entire database, or just a single record in the database.

The HOME INVENTORY program has on-line help to assist you in using the various options. This program provides an excellent way to gather and maintain an inventory of your valuable possessions.

(PC-SIG Disk# 1349)

Special Requirements: *None.*
Author Registration: *None.*

■ *Linear Optimizer 2*

LINEAR OPTIMIZER 2 is a must for any manufacturer or hobbyist who needs materials cut from any bulk source. Whether you're a carpenter, machinist, or a seamstress, you'll maximize your material by reducing waste. Now you can easily generate part layouts, manage inventory, and calculate the costs of materials. LINEAR OPTIMIZER 2 even has part layout forms for frames with mitered or butt joints.

With the included database, you can print an inventory summary, and a variety of nesting reports based on custom information. And, the pull-down menus, automatic inventory updating, and context-sensitive help make the program easy to use.

(PC-SIG Disk# 1062)

Special Requirements: *None.*
Author Registration: *$35.00 to $100.00.*

■ *Point & Shoot Home Manager*

HOME MANAGER helps you manage the details of operating a home and its (sometimes complicated) day-to-day finances.

Create a database of your assets and liabilities, budget and track your home finances, print addresses on envelopes (laser printers only) or labels, calculate various payments and interest earnings, schedule and track maintenance on your home, create a list of things to do, track your vehicle maintenance and make lists of general items, names, addresses and phone numbers, and your important data. Print any or all of these records. There is also a built-in calculator and calendar to view each month of any year.

(PC-SIG Disk# 940)

Special Requirements: *Two floppy drives.*
Author Registration: *$35.00*
➤ ***ASP member.***

■ QuickList

A great program for any homeowner or renter who wants accurate records of possessions for insurance reasons. Keep track of each piece of your furniture, its current replacement price, who uses it, and where it is located in your home. The list is categorized by room and can either be printed by room or in its entirety.

(PC-SIG Disk# 1033)

Special Requirements: *CGA.*

Author Registration: *$35.00*

User Comments: *"Great for home usage. Inventory is the best yet."*

■ Refund

REFUND is a database that keeps two types of information — refunds that have been sent out and refunds that have been collected. Each of these data categories will hold up to 998 refund records. All records can easily be coded per type of merchandise, and after being coded, the records may be sorted according to date or code.

(PC-SIG Disk# 1323)

Special Requirements: *CGA.*

Author Registration: *$12.00*

■ Rokmar HouseHold Inventory

ROKMAR HOME/OFFICE ASSETS INVENTORY SYSTEM is an inventory log program that enables you to keep track of your home or office assets.

In case of fire, theft, etc., your insurance company will want an itemized list of each piece of merchandise, the model numbers, the serial numbers, the location the article was kept, the purchase/ replacement cost, etc. This information can be difficult to piece together with any amount of accuracy after the disaster strikes.

The INVENTORY SYSTEM keeps track of all you own, allows for easy updating on a regular basis, and provides a detailed inventory report of assets sorted by type, location, or user defined index. It is also able to generate customized files for importing to spreadsheets or financial analysis programs.

You may be amazed to find out how much money you have tied up in household/office assets, in what areas this money is concentrated, and in what type of merchandise! This information is useful for capital budgeting, tax planning, developing reasonable precautions against losses due to theft and fire, and, of course, documentation for insurance claims.

The INVENTORY SYSTEM also provides helpful guidance on how to take inventory, such as hints concerning often overlooked items: expensive clothing articles, landscaping purchases, books, telephones, computer software, lighting fixtures, custom curtains, hot water heater, kitchen appliances and utensils, tap water filters, children's articles, outside articles, items loaned to someone else, important papers, etc.

(PC-SIG Disk# 1227)

Special Requirements: *None.*

Author Registration: *$10.00 or $15.00.*

■ YOUR VERY OWN Home Inventory

Keep track of everything you own: furniture, heirlooms, paintings, silver, collections, etc. Know where everything is, where it came from and what it is worth. Perfect for insurance coverage and claims.

Use your own words or specialized expressions to describe all the data you record. You can store and retrieve by various categories such as room or chairs or "Mother's." Record serial numbers or other identification.

The documentation for this menu-driven program is extensive and very thorough. Routines are included to print complete inventories or reports on specific categories. A must for every homeowner!

(PC-SIG Disk# 395)

Special Requirements: *A version of BASIC and printer.*

Author Registration: *$35.00*

User Comments: *"Excellent aid to compiling inventory of household possessions." "Very good inventory program. Simple to use, fairly speedy. Very useful. A help for cataloging for housewares." "Excellent. Easiest inventory I've used. A well organized and feature packed inventory program." "Love it. Keeps everything at my finger tips."*

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Home Money Manager II HOME MONEY MANAGER II (HMM) is an easy-to-use home checkbook, budgeting, and credit account tracking-tool. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 837)

Home Movie Librarian Catalog your collection of videotapes with data fields for title, starting and ending positions, featured artist, and more. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1266)

HomeBase This is the desktop manager considered by PC Magazine to be better than SideKick. Includes DOS shell, calendar, wordprocessor, communications, cut and paste, database and more! See *Desktop Organizers.*
(PC-SIG Disk#'s 728, 729, 1112)

Horse Racing See *Gambling.*

Host Mode, Communications See *Communication Programs.*

Hostages A hostile country has taken hostages and it is up to you to get them out. Shoot your guns through the walls and free them. See "Game Series 21" listed under *Games, Arcade.*

Hot key A key or combination of keys which will call up a memory-resident program when pressed.

Hotboot and Insults Install on your victim's PC. When he comes back from lunch and touches a key, look out! His computer goes berserk! Safe, but insane! Also, has program for randomly generating 22 million insults! See *Practical Jokes.*
(PC-SIG Disk# 619)

Hotdir Show a directory with vibrant colors. Each file extension utilizes a different color. See "Xanadu Utilities" listed under *File Management Utilities.*

Hotkey Customize your function keys and make common commands easier to use. See *Utilities, Macro Programs.*
(PC-SIG Disk# 444)

HP Fonts See *Printer Utilities, Laser.*

HP Laser Jet See *Printer Utilities, Laser.*

HP LaserJet Soft Fonts and Utilities SOFT FONTS AND UTILITIES is a boon to laser printer owners. Imagine a great font downloader, handy utilities, and a wealth of incredibly useful soft fonts — all in one package! See *Printer Utilities, Laser.*
(PC-SIG Disk# 1463)

Hurricanes See *Reference Materials (books/articles/information/data).*

Hyde Protecting your data — HYDE allows you to hide/unhide files. When you hide a file, it won't be accessible by DOS until you use the unhide program. See *File Management Utilities.*
(PC-SIG Disk# 877)

Hyper Helper Make "pop-up" help screens or windows from an ASCII file. Each screen is linked with other related screens for more information. See *Hypertext.*
(PC-SIG Disk# 1332)

Hypersketch A system for creating layered diagrams or text, used for hierarchies of diagrams, organization charts, run programs or DOS commands, teaching modules and text games. See *Hypertext.*
(PC-SIG Disk# 1473)

Hypertext

■ Black Magic

Wordprocessors, databases and spreadsheets all manipulate and structure information in specific, but different ways. Hypertext systems, such as BLACK MAGIC, enable you to expand information in another way — by dynamically linking keywords, graphics, and blocks of information to one another.

For example, you are creating a document and need to define a concept or word but the detail of the definition would distract the reader from the main text. You can tag a keyword that will indicate that the definition is available. An area of the screen opens and you type the definition or explanation. To explore the definition, the user triggers the tag and the reference is displayed. This is a simple illustration of hypertext.

BLACK MAGIC can shell to DOS, and link and transfer information between hypertext and other applications. Build context-sensitive help systems, link specific items in text documents to technical drawings or illustrations, and expand obscure references with detailed explanations. A screen grabber has been added to integrate graphics into BLACK MAGIC. The extended ASCII character set is supported for the use of international characters.

If you are currently using a document generator for live electronic documents such as: computer-based training guides, foreign language tutorials, interactive catalogs, or educational courseware, than you should be moving over to BLACK MAGIC hypertext writing. You will find BLACK MAGIC to be more than you ever imagined.

(PC-SIG Disk#'s 1120, 1121, 1122)

Special Requirements: *384K RAM and CGA, HGA, EGA, or VGA.*
Author Registration: *$89.95*

■ Hyper Helper

HYPERHELPER lets you make special "hypertext" pop-up windows or help screens from an ordinary ASCII file created by your wordprocessor. Each window is linked together by highlighted words in the text with other windows, which users can pop up for even more detailed information. Windows may be positioned to any part of the screen.

(PC-SIG Disk# 1332)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Hypersketch

HYPERSKETCH is a program that helps you to create "layered" diagrams which can include boxes, lines and/or text. Create colorful diagrams with text for explaining a concept, giving instructions, or documenting a program. The layered diagrams can be used as a menu system to execute your programs or perform DOS functions. HYPERSKETCH can be used for educational purposes or to create a text adventure game.

Each diagram occupies a full screen. Boxes can be drawn in any combination of color, size, and position. Text can be displayed in different colors and the lines can turn corners and have arrow heads. Any object of the diagram can contain a layered diagram beneath it on a totally separate screen. Layered diagrams can be accessed by pressing a key while the cursor is on the object that has the diagram beneath it. A maximum of 99 levels of diagrams may be created per file, depending upon available computer memory.

Any diagram on the screen can be printed on the printer or written to an ASCII file, for later use with a wordprocessor. The program has extensive editing features: objects can be moved, cut and pasted, edited, saved, and read from a disk file into memory. You have two independent working areas allowing you to work with two diagrams at the same time.

(PC-SIG Disk# 1473)

Special Requirements: *384K memory. Printer support of IBM line drawing character set.*
Author Registration: *$19.95*

■ Hytext

HYTEXT brings hypertext — the latest development in computer learning and information retrieval — within the means of every interested author, teacher, and electronic publisher.

HYTEXT, using the new hypertext concept and electronic texts, may be the solution to the age-old problem of forcing a reader to wade through an article or book sequentially, line-by-line, page-by-page. HYTEXT allows for skipping, dodging, and darting along a reader's interest or learning curve.

Hypertext enables an author of computerized texts to designate specific words as hot words, highlight them in the text, and link them to related topics, footnotes, explanations, or other programs. Readers can then instantly jump off from the main article or chapter at any of the hot words to delve deeper into subjects they need refresher information on or want to study further, and then jump back to where they were reading.

For example, the sentence, "Amphibians of the Amazonian rain forest have survived relatively unchanged for centuries," might generate several hypertext jumping off points for the reader interested in knowing more about amphibians, the Amazon, or rain forests. Authors need no longer worry about being too technical and losing the beginner, or too simple and boring for the more advanced. Readers are able to obtain just the right level of information they need, when they need it.

Hot words are displayed as highlighted text which may be selected using the cursor control keys. Readers simply point-and-shoot to go off on new tangents of learning. The Enter key is used to jump to the next topic. The End key is used to return to a previous topic.

HYTEXT uses simple control codes imbedded in any document to create hypertext links or scripts. These scripts are maintained using a text editor or wordprocessor. Authoring tools such as file/path info, trace mode, and hot word search are provided. An individual hypertext may span multiple files.

Several hypertext levels are supported:

- Topics containing hot words
- Cards for notes, definitions, etc.
- External text to link to other documents
- External programs to link to other programs

(PC-SIG Disk# 1234)

Special Requirements: *None.*
Author Registration: *$50.00*

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Hytext Create hypertext links inside a document in order to furnish further explanation or footnotes related to the specific subject matter. See *Hypertext*.
(PC-SIG Disk# 1234)

I

I/O (Input/Output) Input is the information or data put into a computer for processing. Output is the information the computer generates by processing input data.

I Ching See *Astrology and Fortune Telling*.

Icon An on-screen picture that represents a process or command. When an icon is singled out (usually with the "click" of a mouse) the command is executed or the process begins. For instance, a picture of a garbage can might represent the process of deleting. To delete a file you would identify the file then "click" on the garbage can to indicate you want to erase the file.

Icon Maker Design your own special graphics and character sets with this menu-driven character generator. See *Programming, Tools*.
(PC-SIG Disk# 485)

IDCshell/NARC IDCSHELL provides the environment and NARC, the key to archived files. NARC is a menu-driven de-archive facility that allows you to move from file to file. NARC is called by IDCSHELL, a DOS-like operating shell. See *DOS Shells*.
(PC-SIG Disk# 1205)

Ideal Terminal (IT) A VT-100 and VT-52 terminal emulator and communications. See *Communication Programs*.
(PC-SIG Disk# 679)

Image 3-D Draw three-dimensional plans and designs in full color. Wire-frame images can be rotated to any viewpoint. See *CAD (Computer Aided Design) and Designing*.
(PC-SIG Disk# 762)

IMG Files See *Presentation Graphics (Slides)*.

Imp Shell, The A powerful expert-system environment for the IBM-PC. See Artificial Intelligence.
(PC-SIG Disk# 761)

Impaired Laser Font Special font for the HP LaserJet II designed for print for persons with severe visual impairment. The type provides maximum distinction between letters. See *Visually Impaired, Programs*.
(PC-SIG Disk# 1223)

IMX Co-Pilot A desk organizer that features a calculator, alarm clock, phone book, and more. See *Desktop Organizers*.
(PC-SIG Disk# 1020)

IN-CONTROL Sales prospecting and business contact tracking that has high-speed data sort, an appointment tickler and an extensive sort system. See *Sales and Prospect Management*.
(PC-SIG Disk#'s 687, 688)

Income Tax Calculations See *Tax Preparation*.

Indent Make your C source code more readable and appear in an acceptable format. INDENT is a C program formatter that reformats any C program in the input file according to the switches or command options. See *Programming, C.*
(PC-SIG Disk# 962)

Index Creation, Word Processing See *Word Processor and Text Utilities.*

Input Data or information that is entered into a computer. Without some sort of input, a computer would just sit there.

Instacalc A well-muscled pop-up spreadsheet that can absorb information from the screen of any application in which it is used. Use with databases, wordprocessors, etc. See *Spreadsheets.*
(PC-SIG Disk# 710)

Instacalendar Produce a full-page calendar for any month and any year from 1600 to 2050 A.D. Display on screen or print. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 709)

Instrument Calibration See *Chemistry and Physics.*

Insulation, Home See *Reference Materials (books/articles/information/data).*

Insulin Trains student nurses to determine correct insulin dosages and IV rates. See *Health Management.*
(PC-SIG Disk# 1311)

INTCAL An interest calculator for determining the present and future values of payments, interest, and capital recovery. See *Loan Calculators.*
(PC-SIG Disk# 1310)

Integrated (Wordprocessing, Database, and Spreadsheet)

■ SS1

This combo of programs solves 70% of your computing needs! This integrated program combines a wordprocessor, a list/data manager, communications, a mid-size spreadsheet (64 columns by 255 rows), and a file and directory browser. To make the program even more comprehensive, pop-up aids are a keystroke away anywhere in the system. These include a calculator, an aid for graphing data, file/directory viewing, DOS shell interface, and a utility to make macros, or smart keys.

Packed with features, the wordprocessor offers functions normally found only in the top of-the-line packages. The commands are unique to this program, but are easy to learn and fast. The mailing list manager uses standard text files, can edit columns, and sort, select and print records as reports or mailing labels. The spreadsheet has all the standard functions, plus handles multiple pages.

The communications program is one of most general on the market. It can communicate through almost every modem. However, this tremendous flexibility might make it difficult to configure for your particular system the first time you use it. The file and directory browser/manager, on the other hand, is fairly easy to use and a great help in dealing with hard disk housekeeping. You have all the commands found in many separate programs, at your fingertips: backups, deletions, printing, viewing, and directory alterations.

The pop-ups include a calculator, file and directory checker, a print screen utility, a graph maker, and programmable "hot" or "smart" keys (macros). The calculator supports decimal, hex, and binary for basic arithmetic functions. The help system provides instant access to more than 100 screens of context-sensitive help.

(PC-SIG Disk#'s 1414, 1415)

Special Requirements: *360K RAM.*
Author Registration: *$50.00*

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Integrated software Integrated software combines several applications into one program. For instance, a program might be a wordprocessor, database, and spreadsheet all in one. An advantage of integrated software is it allows for free transfer of information from one application to another without leaving the program or reformatting the data. For example, you can take the raw data from a database program and shift it to your spreadsheet for mathematical processing, then move the results to your wordprocessor to use as part of a letter or report.

Intelli-Trieve A "weighted retrieval" utility for users of dBase III, III+ and compatible database managers. See *Database, dBase Utilities.*
(PC-SIG Disk# 811)

Interactive Matrix Calculator A tool for the researcher that makes data collection and statistical analysis easier. See *Math and Geometry Programs.*
(PC-SIG Disk# 823)

Interface To connect two pieces of hardware or software so communication can occur. Interface can also refer to the connection itself.

Internal Rate of Return See *Loan Calculators.*

International Game Collection A trio of intriguing games: PC-Pontoon — a one-man version of Blackjack; Prince — manage a complex kingdom in central Asia; Ball Catcher — rack up points catching falling balls. See *Games, Arcade.*
(PC-SIG Disk# 1140)

Interpreter A program which executes other programs by converting source code to machine language. An interpreter reads the program it executes one line at a time, immediately carrying out each instruction. Unlike a compiler which permanently converts source code to machine language, an interpreter does not convert the source code, only translates for one-time execution. Programs in the BASIC programming language require an interpreter for execution. For programs see *Programming, BASIC.*

Interrupt Inspection See *Utilities, System or Hardware.*

Inventory See *Accounting, Inventory Control.*

Inventory Sort Keep track of your inventory and other applicable information you need to analyze your inventory position. See *Accounting, Inventory Control.*
(PC-SIG Disk# 961)

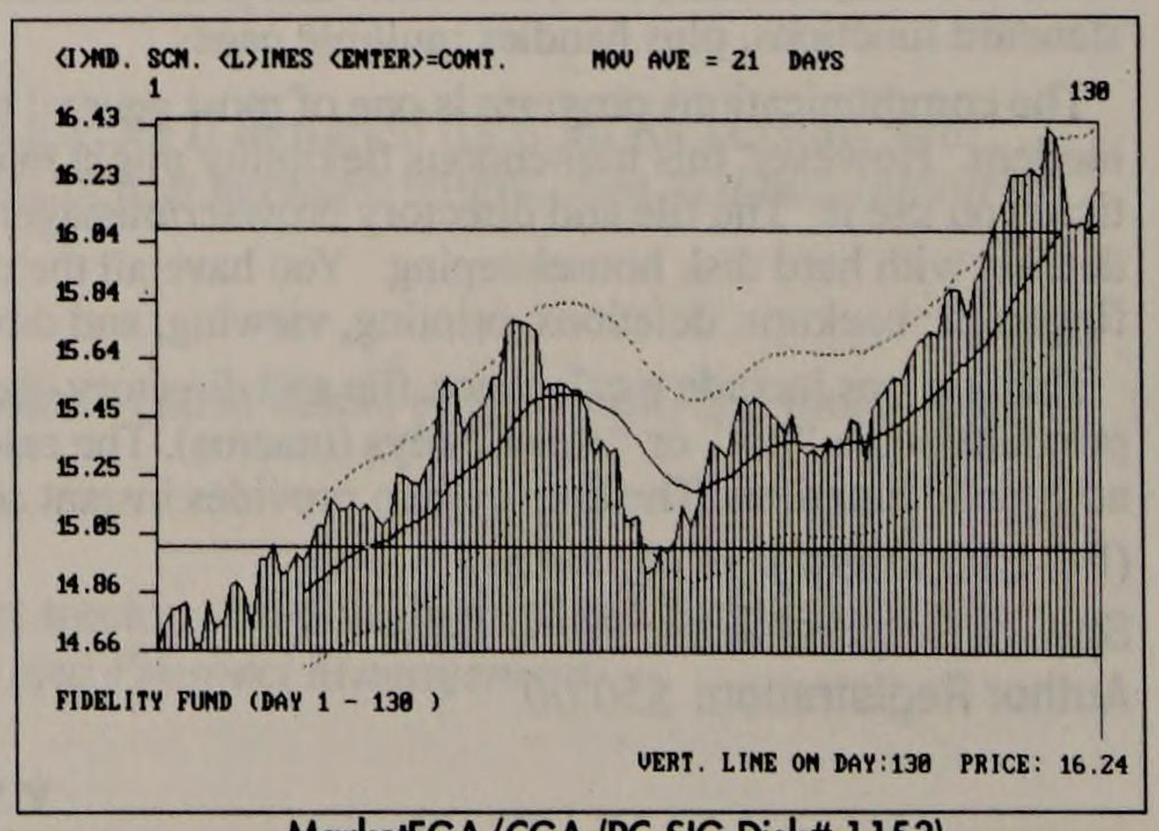
Inventory, Home See *Home Management.*

Investment Management

■ MarketEGA/CGA

MARKETEGA/CGA is a full-featured stock/mutual fund tracking package with strong graphics capabilities. It is written especially for the individual investor to display the price action of individual stocks or mutual funds of a portfolio with ease. With MARKETEGA/CGA you can easily create a database for up to 50 individual stocks or funds, and up to 130 trading days (26 weeks) of data can be readily displayed. You can develop several different database files, and each file can be used to store, print, and plot an additional 50 stocks or funds. In addition, historic information for your assets can be saved covering 26 weeks at a time.

MARKETEGA/CGA is completely menu-driven and fully documented. A powerful zoom feature allows you to concentrate on the critical days for detailed analysis.



MarketEGA/CGA (PC-SIG Disk# 1153)

Easy-to-use indicators help you separate real trends from the zig-zags. Multiple moving averages, overbought/oversold, universal indexes, convergence/divergence, relative strength Williams Oscillator, trend lines, and trading bands are all supported.

MARKETEGA/CGA is an outstanding program that performs sophisticated technical analysis on stocks, mutual funds, and commodities.

(PC-SIG Disk# 1153)

Special Requirements: *640K RAM and CGA or EGA.*
Author Registration: *$45.00*

■ PC-CHART

Bullish on the market? Or bearish? This program will help you decide!

PC-CHART brings you a comprehensive set of technical analysis tools to help you decide when to buy and sell stocks and commodities. Mathematical algorithms help you determine what action to take. The spreadsheet-like interface permits easy editing and manual updating of up to 400 price files. For anyone who prefers automatic updating, PC-CHART lets you use HAV-INFO, a low-cost data vendor to get price updates via modem.

The analysis section permits use of price/volume, relative strenth, moving averages, parabolic system, logarithmic plot, point and figure, stochastics, weekly charts, monthly charts, on-balance volume, money flow, and other parameters. Menus and a 52-page user guide on disk help you get started.

(PC-SIG Disk# 1436)

Special Requirements: *384K RAM, Hercules graphics or CGA, and a modem.*
Author Registration: *$99.00*

■ PC-Portfolio

PC-PORTFOLIO is a database designed specifically for the collection and analysis of financial data for blocks of stocks, bonds, notes, mutual funds, and other securities.

While it does not make buy-or-sell recommendations, it does allow the investor to collect and view financial data from three aspects: the data can be inspected through a history editor; the last 53 records in a portfolio can be graphically viewed on screen; or closing prices and hi-low prices are graphed while volume of sales are shown. In addition, summary reports are compiled.

(PC-SIG Disk# 1310)

Special Requirements: *CGA.*
Author Registration: *$25.00*

■ PC-Stock

PC-STOCK finance program is a stock evaluation and tracking system. It is meant as a tool to help you analyze stock trends, and tries to meet this objective with an easy to use, menu-driven system and informative graphics. Support is also included for graphics printers, enabling you to save your analysis to hard copy. Produce line graphs for: high analysis, volume analysis, composite analysis, on-balance volume and average high/low analysis.

(PC-SIG Disk# 575)

Special Requirements: *CGA.*
Author Registration: *None.*
User Comments: *"Graphics and statistics are pretty good." "Excellent user guide, tells you how to do everything except make a profit." "Keeps me organized."*

■ PFROI

Now you can track your investments daily. How often have you analyzed just how much of an increase, (or, sadly, a decrease), from the original cost, that daily value represents? PFROI helps you to maintain and manage a securities (stocks, bonds, mutual funds, CDs, etc.) portfolio and periodically measure the return on investment.

Several reports and analyses are available: gains, dividends, interest, miscellaneous income, open lots, transactions, account position, relative strength, valuation plot, portfolio ROI, security ROI and client statement. Focus on those marginal investments in order to make well-informed GO/NO GO decisions. PFROI does not download electronic stock data. A demonstration data file is included.

Manage an extensive portfolio and plan and prepare your taxes.

(PC-SIG Disk# 360)

Special Requirements: *None.*

Author Registration: *$19.00 or $65.00.*

■ Portrac

PORTRAC is perfect for any investor who needs a versatile and flexible investment tracking program. PORTRAC keeps track of investments and evaluates their true return on a time-related basis. It can handle nine individual investor accounts with up to 396 investments for each account.

PROTRAC tracks all transactions of any investment, whether a stock, a bond, fixed dollar denominated investment, or an appreciable dollar- denominated investment such as real estate. It reads an individual investment report and quickly computes the internal rate of return. It produces a portfolio showing the investment name, file name, cost, present value, and gain or loss of the portfolio. You can get the total portfolio or selected portfolios by investment type. PORTRAC also produces net worth statements and amortized loan tables.

A major feature of the program is it can read an investment file and quickly compute the internal rate of return of the investment. With complete and accurate records of investments, along with a measure of the true time-related return of an investment, you can determine your future investment policy. The multiple account capability lets you set up an account for investment studies. With hypothetical investments, you can measure the internal rate of return on the forecasted investment. It is very difficult to manually evaluate the true return of an investment that had investments at different times, cash flow at variable intervals and in varying amounts, and sale of the investment at various time intervals and prices. PORTRAC will do this for you.

PORTRAC is menu-driven and easy to use. It has a demonstration account with files for quick familiarization. You can view reports and print them. These features and others make PORTRAC the perfect investment tracker and counselor.

(PC-SIG Disk# 754)

Special Requirements: *None.*

Author Registration: *$30.00*

User Comments: *"Excellent! Does exactly what I need."*

■ Portwort Package

The PORTWORTH PACKAGE is an interesting set of programs that you can use to monitor and evaluate your stock portfolios. All of the programs are written in BASIC and so, are not overly fast, but they do the job. Portfolios of up to 25 stocks can be processed. It has graphing capabilities, and includes documentation and sample files to illustrate its usage. Source code is included.

(PC-SIG Disk# 101)

Special Requirements: *A version of BASIC.*

Author Registration: *$15.00*

■ Stock

STOCK tracks an unlimited number of stock portfolio files with up to 200 entries each. You fill out basic information, and the program generates loss or gain figures and annual and total percent value changes. Record keeping and evaluation meets most personal information needs, including tracking data required for income tax filing.

(PC-SIG Disk# 1159)

Special Requirements: *None.*

Author Registration: *$10.00*

■ Stock Charting System

The STOCK CHARTING SYSTEM draws or prints "volume/high/low/close" charts for any stock, bond, commodity, or security that has a high/low/close price. Short- and long-term moving averages can be included on the chart and temporarily changed for "what-if" calculations. The STOCK CHARTING SYSTEM is menu-driven and comes with a complete set of context- sensitive help screens.

(PC-SIG Disk#'s 246, 1354)
Special Requirements: *CGA and two floppy drives.*
Author Registration: *$39.00*

■ *TRANSTOK*

TRANSTOK helps anyone interested in the stock market to easily download constantly updated stock market information from The Source (a public communications network).

TRANSTOCK acts as a data translator, enabling any data management software (spreadsheets, databases, graphics programs, etc.) to use this information for analysis and trend development. Stock information can be imported to dBase II, III III+, Multiplan, and Lotus 1-2-3.

Track your stocks, analyze trends, and be on top of your investments!
(PC-SIG Disk# 323)
Special Requirements: *A modem and access to The Source.*
Author Registration: *$25.00*

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Invoicer, The Quickly cranks out custom invoices, statements, and overdue notices. It also tracks billings and sales activities, maintains a journal of your customers and a list of your company's stock items. See *Accounting, Billing.*
(PC-SIG Disk# 1348)

Invoicing See *Accounting, Billing.*

IQ Builder A variety of games and word puzzles to give children, ages 5-10, a mental workout. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 18)

IQ Enhancement See *Spelling, Word, and Vocabulary Quizzes and Games.*

IRS See *Tax Preparation.*

It's All In The Baby's Name Planning to have a baby? Then you will certainly want this program which helps you choose the right name to insure your offspring's future success! Great gift for your friends who are about to become parents! See *Entertainment, General.*
(PC-SIG Disk# 1214)

Itemized Calculator, The Make self-calculating lists of items for taking inventory, updating your stock portfolio, and tracking daily sales. See *Databases.*
(PC-SIG Disk# 1375)

J

Japanese Tutor Menu-driven instruction for the beginning Japanese language student. Learn vocabulary and grammar. Explore the culture and widen your horizons. See *Language Study, Foreign.*
(PC-SIG Disk# 712)

Japanese, Educational See *Language Study, Foreign.*

Jem JEM LOGO is a very simple programming language that teaches children the logic associated with a computer and how to combine commands to carry out complex tasks. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 922)

Job Cost A job-cost control system for multiple job cost centers. Do variance studies with budget controls, project profit and loss estimates, and cost of the entire job. See *Accounting, Job Costing and Bill of Materials.*
(PC-SIG Disk# 1230)

Job Costing See *Accounting, Job Costing and Bill of Materials.*

Job Organization and Backup System Does all the "housekeeping" chores for managing your PC: file searching, backup/restore, sorting, archiving, and more! See *DOS Shells.*
(PC-SIG Disk# 1093)

Job Search See *Resumes and Job Search.*

Jog Log JOG LOG records your progress as a runner and calculates the aerobic benefit from each run. See *Sports Management.*
(PC-SIG Disk# 894)

Jogging See *Sports Management.*

Jokes, Practical See *Practical Jokes.*

Jove The PC version of EMACS has all the wordprocessing functions of its mainframe computer relative, with some interactive PC niceties. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk#'s 1429, 1430, 1454)

Joystick A joystick is a manually controlled device that lets a user move images and pointers around on a screen. The joystick has a vertical rod or handle which sticks out of a base. Movement of the handle "forward, back, and side to side" communicates positional information to a computer in much the same way a mouse does. Joysticks are used most often in video games.

Judging, Sports See *Sports Management.*

Judy, the Memory Resident Calendar Here's Judy, your gal Friday. This memory-resident program will keep your appointment calendar, help you plan your time, update your address and phone book, and much more. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 848)

Julia Set See *Fractals and Mathematic Based Graphics.*

K

K, Kilobyte K is computer shorthand for kilobyte. A kilobyte is 1024 bytes. Computer memory or storage space is often measured in K or kilobytes. For instance, a 360K floppy disk would have room to store 360K, or 368,640 bytes of information. Sometimes memory and storage space are measured in megabytes, one million bytes.

KBOZP Super Contest Log A contest-logging program for the HAM radio enthusiast. Log all contacts with relevant information. See *Ham Radio.*
(PC-SIG Disk# 1096)

Keno Pick 1 to 10 numbers and hopefully have them match up to what the computer picks. See "Follies" listed under *Games, Arcade.*

KERMIT A file transfer protocol for machines using MS/PC-DOS. Transfer error-free files between PCs and other, larger computers as well. Assembly source code is included. See *Communication Programs.*
(PC-SIG Disk#'s 41, 42)

Key Field Many databases locate and sort the information they contain by key fields. For instance, a person may keep a record of friends in a database. The record might consist of one field containing each name and a second field containing phone numbers. A key field is the one by which a computer sorts or locates records. In the example, the name field would be an easy field for the computer to sort alphabetically or to locate the records of a particular friend. Thus, it would be designated a key field.

Keyboard Layout See *Utilities, System or Hardware.*

KidGames Educational games for kids, ages 2-10. Teaches ABC's, clock time, spelling, and computerized graphics! See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 705)

Kids Programs See *Children's Programs (ages 2-10).*

Kinetics A program for clinical pharmacists that calculates the dosages of several commonly used drugs based on the principles of pharmacokinetics. See *Health Management.*
(PC-SIG Disk# 947)

Kingdom of Kroz KINGDOM OF KROZ is a combination game of arcade action, strategy and adventure. Each level is patrolled by up to 1000 monsters — looking for you. Search for a priceless amulet with a whip and your wits. See *Games, Adventure and Text.*
(PC-SIG Disk# 832)

Knew Copy " *.* " but only new files with a more recent date stamp. Good for backups. See "Dos Utilities 16" listed under *File Management Utilities*.

Kong A gorilla's got your woman and the only way to rescue her is to climb four grueling flights of stairs while dodging oil barrels. A Donkey Kong clone See "Arcade Series 3" listed under *Games, Arcade*.

Kwikstat Menu-driven statistical analysis with great graph making! See *Statistical Programs*.
(PC-SIG Disk#'s 654, 655)

L

Labcoat Laboratory data and cost analysis system to help manage a clinical lab. See *Chemistry and Physics*.
(PC-SIG Disk# 932)

Label Keep track of your little black book and then write letters or labels to your printer. LABEL will even print a listing of all records with telephone numbers. See "Utilities Galore" listed under *Printer Utilities*.

Label CMT Menu-driven program for producing labels in any size up to 5.2 x 2.3 inches. See *Label Makers*.
(PC-SIG Disk# 1297)

LABEL MAKER Print labels for your library of disks. Use the labels that come with your disks in your printer. See *Label Makers*.
(PC-SIG Disk# 284)

Label Makers

■ Fancy Label Maker

Most computer users have a need for a simple utility which can print their labels for them. And whether those labels are going to be used on disks, letters, or something else, FANCY LABEL is the program for you.

Save and retrieve a specific label and print as many copies as you want. All the labels are saved into a data file on the drive of your choice. For each line you may choose either normal, double width, condensed, normal compressed, or double compressed. Each print style can be either in italics or regular print mode.

FANCY LABEL is designed to work with single-feed fanfold labels. You can use either 3-1/2" x 15/16" labels, on which you can print up to five lines, or 4" x 7/16" labels, on which you can print up to eight lines per label.

(PC-SIG Disk# 871)

Special Requirements: *Printer and labels.*
Author Registration: *$10.00*
User Comments: *"Like it!"*

■ Label CMT

This simple program prints labels in any size up to 5.2 x 2.3 inches including regular address labels (3.5" x 0.7"), or file folder work labels (3.2" x 2.3").

Labels are shown on the screen letting you see what you are going to get. Size of type is standard with no options. You can save labels to a library, print one or more copies of the same label, and optionally pause the printer after each label is printed. LABEL CMT is most useful for creating labels that do not need to be part of a database, such as return address, file folder, or inventory/bin type labels. The program is menu-driven with on-screen help.

(PC-SIG Disk# 1297)

Special Requirements: *None.*
Author Registration: *$20.00*

■ LABEL MAKER

A simple menu-driven labelmaker, perfect for novices. Print labels for your library of floppies on the labels that come with your blank disks. Adjustable label dimensions and lines per inch printing let you differ label sizes.

(PC-SIG Disk# 284)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Label Master

LABEL MASTER is a program for maintaining, sorting, and printing lists of names and addresses (mailing lists), with a couple of added twists. You will find all the regular capabilities of a labeling program, such as full search and replace on all fields, full screen records browsing, accommodation for international addresses, and a larger phone field to accommodate any size phone number. The extra added twists are a pop-up help system, pop-up calendar, pop-up digital clock, and pop-up calculator. There's even a coffee break game built into the program for times of over-stress and under pay.

LABEL MASTER will automatically date-stamp each new record in a "notes" field for future reference. Label Master will print multiple labels across the page, and will pause after each page, if requested (great for single sheet labels). The documentation consists of a brief description of each of the menu selections and a few paragraphs on installing the program on your system.

(PC-SIG Disk# 750)

Special Requirements *384K RAM.*
Author Registration *$35.00*

■ MR. Label

A labeling program that offers some very useful features. Create everything from simple reports to custom labels and print on any type of single-sheet or continuous form.

Use your printer like a typewriter to create one-time labels, or retrieve and print information from virtually any database that stores data in text files.

MR. LABEL offers professional features especially useful to secretaries, salespeople, non-profit groups and companies doing bulk mailings:

- Address envelopes — individually or continuous feed
- Print the return and destination address in one operation
- Design labels any size and position text anywhere on the label
- Vary type fonts between lines
- Print letterheads, price tags, ID badges, file folder labels, name tags, inventory slips, and disk labels
- Create mass-mailing applications
- Design print formats for database records
- Print promotional messages on mailers as they're addressed
- Plan formats to print checks and complete forms
- Print in any font supported by your equipment
- Avoid typing repetitive lines with fixed text
- Increase a printed number with the auto-increment feature
- Adjust screen colors, automatically center, and make multiple copies
- Design printing formats and save them to disk

(PC-SIG Disk# 917)

Special Requirements: *Printer.*
Author Registration: *$20.00*
User Comments: *"Found MR. LABEL exceptionally versatile and helpful." "I use MR. LABEL to keep track of my church mailings. It's relatively complicated but the documentation helps solve my problems."*

■ PRTLabel

PRTLABEL prints multiple copies of a single label or single labels with a new address each time. It prints as many labels as you like in a given run, up to six labels across, 10 lines per label.
(PC-SIG Disk# 744)
Special Requirements: *None.*
Author Registration: *$25.00*
User Comments: *"At last, file descriptions in English instead of cryptic codes." "Well written, especially CLUBCAT."*

■ Simply Labels

SIMPLY LABELS is a unique label program that lets you design your own labels, any size you want.

Each label format you create can have its own standard background text, which can include graphics characters. In this way you can create labels with blank lines or boxes for data entry. You can also specify the length of the label and the number of lines each label has. Each line of the label you create can have a different kind of typeface, such as normal print, condensed, elite, etc. You can create mailing labels, tape labels, VCR labels, filing labels, or any kind of label for whatever you need.

Several predefined label formats are included in the program, and you can design up to 25 different label formats. SIMPLY LABELS sends the labels to the printer, a disk file, or the screen. You can print single or multiple copies of labels, and print multiple labels across the printer. Label entries can be searched, edited, deleted, and sorted. Labels can be sorted alphabetically by any line in the label. Labels can also be imported into SIMPLY LABELS from a text file.
(PC-SIG Disk# 1150)
Special Requirements: *Printer.*
Author Registration: *$15.00*
User Comments: *"Program is easy to use even without the extensive documentation." "I love it. It does everything I want with labels."*

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Label Master LABEL MASTER is a program for maintaining, sorting, and printing lists of names and addresses. It even includes a pop-up calendar, pop-up digital clock, and pop-up calculator. See *Label Makers*.
(PC-SIG Disk# 750)

Labels, Disks See *Disk Catalogers and Disk Labelers.*

Laboratory Management See *Chemistry and Physics.*

LABPRN LABPRN turns your computer into an electric typewriter. Specifically formatted to handle labels, such as for binders/drawers. See "Utilities Galore" listed under *Printer Utilities.*

LAN (Local Area Network) A group of nearby computers which are connected allowing them to share files and devices such as printers.

Landing Party Gather famous heroes or your friends and enlist them in this adventure. You and your crew must land on the planet and gather energy crystals. Beware! See *Games, Adventure and Text.*
(PC-SIG Disk# 604)

Landmine Make your way through a minefield without getting blown up. If you succeed, there's a surprise waiting for you on the other side. See "Game Series 21" listed under *Games, Arcade.*

Language (programming) A programming language is a unique set of words, phrases, and symbols that can be combined in a number of different ways to form instructions that a computer can understand. Like any language, a programming language has its own rules and conventions for combining those phrases, words, and symbols to write meaningful computer instructions. Low-level languages are very close to machine language, whereas high-level languages closely resemble standard English. For programs see *Programming, (Specific Language)*.

Language Study, Foreign

Cantonese Tutor

Cantonese is an extremely hard-to-learn language spoken by more people than any other language in the world. This program can help you learn it. It is menu-driven, with menus for both the student and teacher. Lessons can be tailored by the teacher for drilling in certain areas.

CANTONESE is designed for use with other forms of Chinese language study, since it does not provide actual spoken Cantonese as an example. The documentation can be somewhat difficult to follow at times, but has all the needed information to run the program.

(PC-SIG Disk# 755)

Special Requirements: *None.*
Author Registration: *$10.00*

French Verb Conjugator

Bonjour, mon ami! S'il vous etudiez le Francais, nous avons une programme pour vous.

If you study French, we have a program for you. The FRENCH VERB CONJUGATOR lets you work on mastering your French verbs in the absence of an actual partner. You can search for a specific verb in English, and the matching verb in French is highlighted. You can also change the tense of the verb with the stroke of a key. You'll need to speak with a fluent, native speaker to work on pronunciation, of course, but this little program can be an excellent learning tool nonetheless.

(PC-SIG Disk# 758)

Special Requirements: *None.*
Author Registration: *$39.95*
User Comments: *"Quick and easy. My French friends admire the way it works."*

Hebrew Quiz and Tutorial

HEBREW QUIZ is a Biblical Hebrew language tutor that teaches the Hebrew alphabet, vocabulary, verbs, and grammar. It is designed for use with Thomas O. Lambdin's "Introduction to Biblical Hebrew" from MacMillan & Co.

Learn the vocabulary by a certain word type, frequency of occurrence in the Hebrew Bible, and cognate groups. You can learn verbs by verb type, conjugation, tense, person, gender, number, or suffix. You can also choose the part of grammar to review.

In addition to the quiz program, HEBREW QUIZ comes with a tutor for each section that tracks your scores. Hebrew words are shown one at a time with an English translation. A menu on the screen displays all the options available.

(PC-SIG Disk# 902)

Special Requirements: *None.*
Author Registration: *$20.00*
User Comments: *"I was thrilled to see Hebrew characters with such quality graphics. I was also happy that this is based mostly on Lambdias grammar. It's fantastic! I wish I had this program when taking Hebrew in school." "Interesting. More value than I expected."*

Japanese Tutor

Face it: you'll never really learn Japanese if you don't spend some time studying in Japan. But before you leave the states, why not get some practice with the best tutor around?

This tutorial is designed to perform as a teacher of Japanese when no teacher is available. It covers Japanese vocabulary, grammar, and culture, using multiple choice, fill-in, and matching questions. The course assumes no prior knowledge of Japanese, but is challenging. It keeps track of your errors and reminds you of those areas you need a bit more work on.

(PC-SIG Disk# 712)

Special Requirements: *None.*

Author Registration: *$23.95*

User Comments: *"Good learning tool. Helpful for beginners." "I'm very pleased with the Japanese Tutor. It gave me with a good basic understanding of Japanese." "Good introduction to traveler's vocabulary. Use of multiple choices and keying in of correct word encourages rapid learning." "Easy to use and the phonetic guides to pronunciation were very helpful. You can add your own vocabulary words!"*

■ Language Teacher

LANGUAGE TEACHER is a series of menu-driven language tutorial programs for vocabulary, verb conjugations, and standard phrases in French, Spanish, German, and Italian. HEBREW is a separate program for language-skills development.

Each lesson is a self-paced tutorial in that specific language. Hundreds of word combinations and thousands of verb conjugations are provided. Various tests are presented including multiple choice and diagnostics. Questions and word choices are randomly selected.

These lessons are not designed to teach conversational languages but rather to provide drills in order to increase your working vocabulary and practice your use of the conjugation forms.

(PC-SIG Disk# 612)

Special Requirements: *None.*

Author Registration: *$5.00 to $10.00.*

User Comments: *"Fine French tutor. The multiple choice flash card approch works great!" "Very useful. It's helping me learn Spanish." "Gave me a quick brushup on languages before an overseas trip." "Great drill on several languages. Used this for my classes." "Great for the kids! Makes learning fun."*

■ Spanish For Travelers

Learn Spanish now with the feedback you need. Good for travelers, students, or anyone needing to communicate in Spanish. Eight lessons are included as well as several routines for quizzing. These lessons teach pronunciation and usage.

For vocabulary building, match nouns, verbs and phrases displayed in Spanish or English with multiple-choice answers. When you make a mistake, corrections are provided and the number of errors is recorded.

You can select any level to begin your learning, and Mexican music is randomly played to keep you awake. Also, audio tapes and other instructional aides are available to complement the program.

(PC-SIG Disk# 1061)

Special Requirements: *None.*

Author Registration: *$23.95*

■ Spanish Verb Conjugator

If you're trying to learn Spanish, this program can help you. The SPANISH VERB CONJUGATOR is designed to help you learn verbs in particular. It is menu-driven and very user-friendly, displaying the past, present, future, and other tenses of each verb.

Whether you're eight or 80 years old, you know how difficult it is to learn a foreign language — especially if you don't have someone to practice with. The SPANISH VERB CONJUGATOR is the perfect tutor for anyone trying to understand, or even spell, some of the Spanish language.

(PC-SIG Disk# 757)

Special Requirements: *None.*

Author Registration: *$35.00*

User Comments: *"Extremely nifty for practice."*

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Language Teacher Menu-driven self-paced tutorials teach French, Spanish, German, Italian, and some Hebrew. See *Language Study, Foreign.*
(PC-SIG Disk# 612)

Lap Dulcimer Tuner and Sheet Music Sampler The dulcimer tuning program helps beginners learn to tune their instruments with an electronic tuner. Five traditional songs are included. See *Music.*
(PC-SIG Disk# 967)

Las Vegas EGA Play Poker, Blackjack, or the slots in full spectacular EGA mode. See "Game Fun for All" listed under *Games, Cards.*

Laser Printer A laser printer combines laser beam and copier technology to generate images and electrostatically transfer them to paper. Laser printers are noted for speed, quietness, the ability to print graphics, and high print quality. For programs see *Printer Utilities, Laser.*

Laser Printer Utilities See *Printer Utilities, Laser.*

Launcher LAUNCHER is a good quality simulation of a single stage-to-orbit launch vehicle. Learn the "feel" for orbital mechanics. Design your own vehicle and pilot it to rendezvous with the space station. See *Astronomy and Space Exploration.*
(PC-SIG Disk# 945)

Laxon & Perry Forth A Forth lanquage system that provides an introduction to Forth for the novice programmer. See *Programming, Forth.*
(PC-SIG Disk#'s 263, 264)

Learn to Guess LEARN TO GUESS is a set of four games that can help your child, grades 1-12, learn basic arithmetic and develop problem-solving strategies. When used in sequence, skills already learned are honed and reinforced. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 1412)

Least Squares Fit Analysis See *Math and Geometry Programs.*

Legal, Record Keeping See *Business Specific Systems.*

Letter Quality Print quality equal in sharpness to the best typewriters. For programs see *Printer Managers.*

LetterWriter An address manager that specializes in mailmerge. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 719)

Liar's Poker Save your dollar bills and play LIAR'S POKER on your computer. Play with up to 20 players and 20 numbers each. See "Game Fun for All" listed under *Games, Cards.*

Library Record Keeping (Including Dewey Decimal)

■ Book Minder

BOOK MINDER is a book-cataloging system designed for both personal and business use. It can be used with books, magazines, newspapers, or almost any other published material. BOOK MINDER allows you to catalog a library and then locate a book or article in a magazine, by any one of up to 21 characteristics. Entries can be made for individual articles. This allows you to list the individually unique information contained in each article.

BOOK MINDER is completely menu-driven, easy to operate, and allows three levels of information cataloging. The three levels are: standard, research, and librarian. Each level provides a progressively greater detail of information that can be stored for each entry.

BOOK MINDER can be used to run a database search business, providing different levels of information to customers.

(PC-SIG Disk# 1178)

Special Requirements: *None.*

Author Registration: *$59.00*

User Comments: *"Good organizer/cataloging system." "A book or magazine collector's dream come true. Well written and intuitive." "Excellent book or magazine catalogue program. With three levels, I can be precise when entering information. Excellent documentation with good examples." "Very usable, professional."*

■ Cassy

CASSY is a versatile, inexpensive Dewey Decimal System-based program that helps keep books and audiovisual materials in order. Operation is menu-driven, simple, and intuitive. Printer support lets you print sets of catalog cards, accession lists, and shelf lists.

About 1400 items can be stored on a single 360K disk and up to five subject headings are maintained per item. All catalog card data is printed in proper upper- and lower-case combinations. Also, catalog cards are printed in library order sets (AACR2) for easy filing.

(PC-SIG Disk# 1091)

Special Requirements: *Two floppy drives.*

Author Registration: *$20.00*

■ Pro Librarian

PROFESSIONAL LIBRARIAN is an information-retrieval system for storing citations of articles and books in your own library.

Add, delete, edit, sort, and search citations in your database. Each record includes the author, date, title, citation, number, four subject categories, and a short description. A listing of the database can be output to the screen, a file, or the printer.

(PC-SIG Disk# 1313)

Special Requirements: *None.*

Author Registration: *$25.00*

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Life Forms An enhanced version of classic "Game of Life." Create "life forms," decide on environmental factors and stand back! See *Fractals and Mathematic Based Graphics.*
(PC-SIG Disk# 802)

LightWave Utility Disk Routines to find all active memory, show all screen characters, search directories for a file, tell you when your BIOS chip was made, and more! See *File Management Utilities.*
(PC-SIG Disk# 736)

Line Graphs See *Graphing Programs.*

Linear Optimizer 2 For anyone using bulk material, such as carpenters, machinists, and seamstresses. Generate part layouts and manage your materials for minimum waste. See *Home Management.*
(PC-SIG Disk# 1062)

Lines Convert specified ASCII characters in an ASCII file into line characters. Great for making professional-looking forms and charts in a text file. See "Printer Utilities 7" listed under *Printer Utilities.*

LISP (LISt Processing) LISP is an interpretive language developed during the early 1960's under the direction of John McCarthy at the Massachusetts Institute of Technology. Because it handles complex data structures with comparative ease, LISP is particularly useful in artificial intelligence applications. For programs see *Artificial Intelligence.*

List2day List all files in a directory with today's date stamp. See "DOS Utilities 16" listed under *File Management Utilities.*

Lister, Source Code See *Programming, (Specific Language).*

Litigex Attorneys — Record the collection and collation of evidence, documents, and chronologies with detailed information as to source and current location. See *Business Specific Systems.*
(PC-SIG Disk# 1272)

Loan Calculators

■ Amortization Table

AMOR is an amortization table that calculates monthly payments, interest, and principal for each month on a loan with a duration of one to 40 years. One of the better amortization table calculators that PC-SIG offers.

(PC-SIG Disk# 1027)

Special Requirements: *None.*
Author Registration: *$5.00*

■ Banker

BANKER is a financial program that computes just about anything involving loans, savings, bonds, securities, and credit. Surpassing the needs of most laymen, BANKER meets the majority of computational needs of the finance professional. It computes commercial and installment loans, savings, etc., and provides information and definitions of various financial instruments.

Under commercial and installment loans, you find the payment per period, compute the principal, annual percentage rate, and find early payoff amounts (rule of 78's). Savings information includes the time required to save a given amount, nominal-to-effective rates, and interest on savings. General applications are present value (simple interest), present value (compound interest), and the present value of an annuity in advance.

Calculations for bonds and securities offered are the yield of discounted securities, yield-periodic interest payments, yield-interest at maturity, future value (compound interest), future value of an annuity, and a comparison of interest to discount rate.

(PC-SIG Disk# 1159)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Dollar-Pro

DOLLAR-PRO is a set of quick, easy-to-use tools for performing necessary financial calculations.

DOLLAR-PRO includes three compound interest programs, as well as a basic financial calculator, an annuity program that calculates monthly payments on a loan, and a gross profit margin program that lets you solve one- and two-tier GPM problems. A learning curve program is also included.

Each of the DOLLAR-PRO programs has its own help file that you can access upon entering the program, and we suggest you read through these help files before working with the programs.

(PC-SIG Disk# 1012)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Financial Calculator

FINANCIAL CALCULATOR is a simple, menu-driven program that calculates interest on loans, savings, or payments.

Calculate your monthly payments, total interest, and the total amount you will pay to the bank at the end of the loan. Get a month-by-month breakdown of your monthly payments, interest for that month, payment on the principal and the ending balance for that month. You can also figure the approximate annual interest rate for a loan. A metric conversion utility is included.

(PC-SIG Disk# 994)

Special Requirements: *None.*
Author Registration: *$6.00*

■ INTCAL

INTCAL (INTEREST CALCULATOR) can determine the present and future values of a series of equal payments for capital recovery or for a specific future amount.

The program explains compound-interest transactions, what things will cost and earn, and can help make difficult financial decisions easier. Asking only two or three questions, INTCAL accurately calculates the answer.

(PC-SIG Disk# 1310)

Special Requirements: *CGA.*
Author Registration: *$10.00*

■ Loan Warrior

LOAN WARRIOR is a full-featured loan amortization program that not only calculates monthly payments but also helps you make decisions about a loan by letting you compare different terms or early payoff. It works with both fixed and variable interest rates. Given the principal, the interest rate, and the term of the loan, LOAN WARRIOR gives a complete monthly amortization schedule, yearly interest payments, yearly principal payments, and both a detailed and summary report. An accelerated payoff option is included, analyzing money that can be saved by making larger payments.

(PC-SIG Disk# 1055)

Special Requirements: *None.*
Author Registration: *$10.00*
User Comments: *"Good loan amortization." "A mixed program. The fixed interest program runs fine and has an excellent accelerated payback feature." "Documentation skimpy. Rounds off to the 1/10th of dollar."*

■ LOANCALC

A user-oriented loan and mortgage calculator with a variety of options. Compute interest paid for any given year and output a complete or partial amortization table on a screen or printer. Calculate the balance payment at any given date.

(PC-SIG Disk# 960)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Monamort

MONTHLY LOAN AMORTIZATION calculates and prints a monthly loan schedule.

It prompts you for essential information such as loan amount, percentage rate and length of loan. Then the program prints a report of the monthly loan payments showing the amount of the payment, the amount left due on the loan, and how much is going toward the principle of the loan.

(PC-SIG Disk# 960)

Special Requirements: *None.*
Author Registration: *$3.50*

■ MortPlan

MORTPLAN provides menu-driven ease for calculating home loans. It calculates a standard mortgage for principle amounts up to $99,999,999.99 and interest rates up to 35.000%, and saves the results to disk. Random additional payments can be used and the results analyzed. It has a section for comparing a range of interest rates and a range of loan amounts at the same time. There is also provision for variable rate loans. All output can be directed to either the screen or the printer.

(PC-SIG Disk# 1342)
Special Requirements: *None.*
Author Registration: *$30.00*
➤ ***ASP Member***

■ PCLOAN 4

PCLOAN 4 was designed by a retired bank president who negotiated, originated, and collected over 30,000 commercial loans.

PCLOAN4 provides analysis data for amortizing loans with output to the screen, disk, or printed reports. Perform almost any calculation needed for a business or personal loan which is amortized in multiple payments. It is menu-driven and includes quite a bit of on-line help.

Use PCLOAN4 functions to project just what a loan is going to cost and when. Know what you're getting into, financially, before you take that final plunge.
(PC-SIG Disk# 399)
Special Requirements: *None.*
Author Registration: *$39.95*

■ Varamort

VARAMORT is an amortization program that calculates the monthly payments for variable or fixed loans.

You specify the amount of the mortgage, the length in years, and the interest rate. For variable loans, you can specify the interest rate for each year or specify a certain range within which the interest rate may fluctuate. In all cases, VARAMORT will calculate the monthly payment, principal, interest amount, balance, cumulative principal and the cumulative interest amount. Each year may be separately displayed on the screen, or the entire loan information may be printed to the printer.
(PC-SIG Disk# 1323)
Special Requirements: *CGA.*
Author Registration: *$25.00*

■ Your Financial Analyst

Are you in the market for a home loan, but afraid you might lose your shirt when it comes to the terms of the loan? Do you wish you had somebody to turn to for help?

YOUR FINANCIAL ANALYST can show you various aspects of almost any type of loan based on information you enter. For example, enter the amount of the loan, interest rate, and term (number of years the loan is for), and it gives you a table showing various possible monthly payments. You can also enter the monthly payment you'd like to have, the interest rate, and the term, and it will tell you how much you can borrow. It also has a financial planning section for retirement planning, loan comparison, amortization tables, and planning your childrens' college educations.
(PC-SIG Disk# 792)
Special Requirements: *None.*
Author Registration: *$35.00*
User Comments: *"Found disk very useful for calculating loans at different rates and terms."*

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Loan Warrior Calculates monthly amortization schedule, yearly interest payments, yearly principal payments, and optional accelerated payoff. See *Loan Calculators*.
(PC-SIG Disk# 1055)

LOANCALC A user-oriented loan and mortgage calculator with a variety of options. See *Loan Calculators*.
(PC-SIG Disk# 960)

Locate A file locator system built on keyword recognition. LOCATE helps you quickly locate files by specifying a keyword or words to search for. See *File Management Utilities*.
(PC-SIG Disk# 731)

Lock Write-protect your hard drive. This utility should definitely be used when first looking at programs downloaded from a BBS. See "FLU-SHOT+ and More" listed under *Security — File, Disk, or System*

Lockit Keep unwanted users off your system. Lock your keyboard or set your monitor for non-use. See "Miscellanous Utilities" listed under *File Management Utilities*.

Log On To log on generally means to gain access to another remote computer system. It can also refer to the process of starting a certain application program, especially if starting the program requires some type of identification code without which the program will not be started. For programs see *Security — File, Disk, or System*.

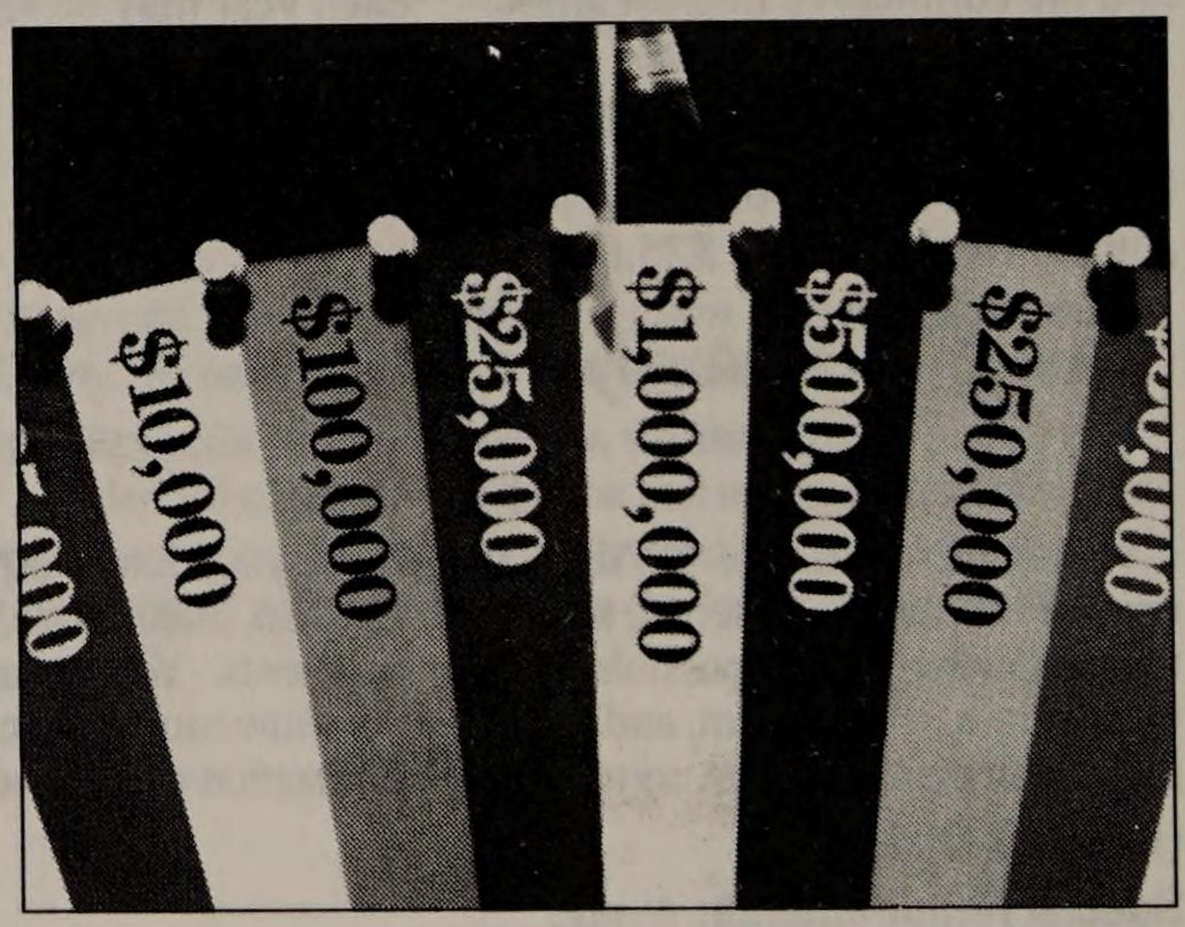
Logging, Computer Usage See *Security — File, Disk, or System*.

Login Control access to your computer with passwords and logging-on routines. Create user audit trails. See *Security — File, Disk, or System*.
(PC-SIG Disk# 1146)

LOGO See *Children's Programs (ages 2-10)*.

Longitude and Latitude See *Maps*.

Loran Locator A navigational aid for sail and engine-powered watercraft, LORAN LOCATOR is configured to operate in any Loran chain in the U.S. See *Flying and Navigation*.
(PC-SIG Disk# 1300)



Lottery

■ Lottery Fun

Keep track of all the winning numbers and numbers you have bet in "6/49" lottery games. Get a list whenever you need it. Source code included for the tinkerer.

(PC-SIG Disk# 749)

Special Requirements: *CGA*.
Author Registration: *$5.00*

■ Lotto Fever

LOTTO FEVER is a synthesis of astrology and lottery simulation with a sprinkling of numerology. Told the date and year of your birth, it gives your astrological forecast and a description of your personality. Next, it asks for the range of numbers for the lottery you are playing. LOTTO FEVER chooses numbers and shows your lucky lotto numbers, based on the data you have given it.

NOTE: The program will not display your lotto numbers on a monochrome monitor. If your system has a monochrome monitor, you must have a printer in order to see your numbers.

(PC-SIG Disk# 929)

Special Requirements: *CGA*.
Author Registration: *$9.00*

User Comments: *"Amusing. Lotto Fever game is fun and informative."*

■ Lotto Master Professional

LOTTO MASTER PROFESSIONAL is a multi-featured menu-driven program that assists you in making decisions about placing Lotto bets. The program is primarily designed for use with California Lotto 6/49, but can be used with other six-number lotteries if the number field does not exceed 49.

The extensive program is designed to maintain and track LOTTO bets, check bets against the LOTTO drawings, maintain a history of winning numbers, analyze historical numbers for significant information, generate bets based on statistical history, support bets based on user-selected numbers with statistical backup, and perform "wheeling" based on nine built-in systems.

LOTTO MASTER PROFESSIONAL has a utility option that allows you to customize your game setup. This program is accompanied by a disk user's guide.

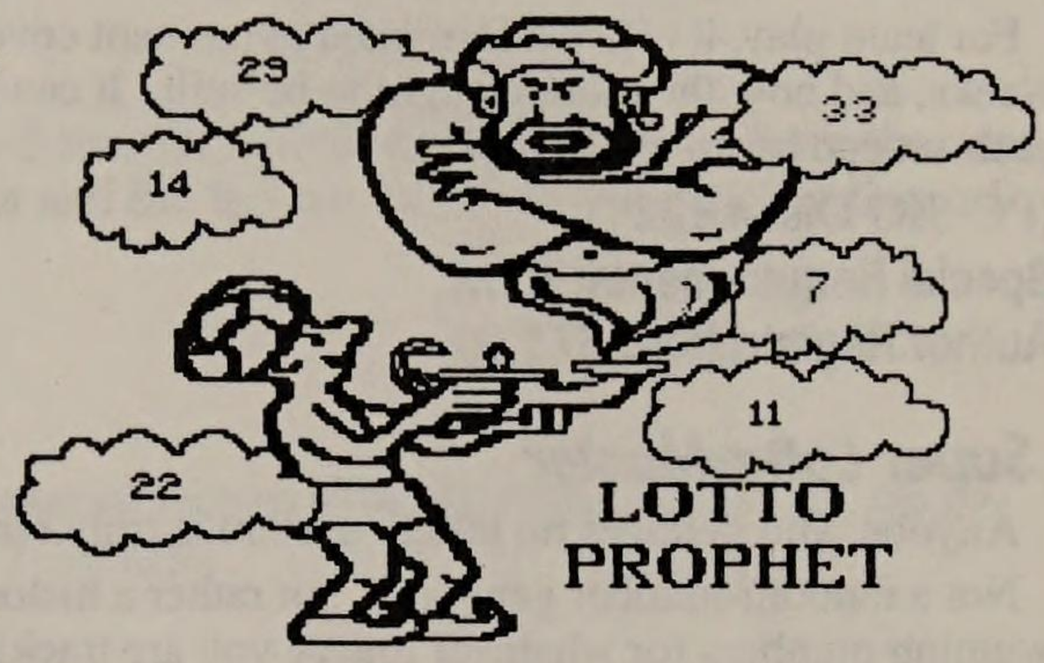
(PC-SIG Disk# 1318)

Special Requirements: *None.*

Author Registration: *$25.00*

■ Lotto Prophet

LOTTO PROPHET has been completely redesigned, rewritten, and expanded to become a very complete lottery software package. Point-and-shoot screens and well-documented programs make it nice to look at and easy to use. The best just got better. PROPHET is a lottery statistical compiler and forecaster.



Lotto Prophet (PC-SIG Disk# 1006)

The program has four main parts:

- Allows for file control, update, editing, and it sorts and prints the files showing repeat numbers
- Produces statistical reports based on the most frequent numbers, current HOT numbers, numbers that have appeared the most with other numbers, and numbers that have appeared the most in a specific month. Prints prophet cards, graphs, trend charts, and more.
- Stores numbers and checks for winners for up to three different lotteries at a time. Each lottery can have eight players, with up to six scores each. Prints a report on the players and their scores plus the results of the drawing — four out of six, etc. Great for groups of players.
- Selects numbers for you with the Prophet's Prognosticator, if you prefer, and expresses an opinion of them. Works on all the State LOTTOS, Australian Gold, and Canadian 6/49.

LOTTO PROPHET can help you predict, store, and check your numbers using the latest scientific methods or you can let the opinionated randomizer pick them for you. Good fun!

(PC-SIG Disk# 1006)

Special Requirements: *None.*

Author Registration: *$39.50*

➤***ASP member.***

User Comments: *"Did all it said it would." "Interesting and useful."*

■ Lotto-Trax

LOTTO-TRAX is a menu-driven system which helps you analyze, compare, forecast, display, store and maintain all your lottery numbers and those numbers selected by up to three different games. This package fits virtually every variation of lottery. No matter how your state changes the rules, you can quickly adjust LOTTO-TRAX to match. The system provides clear, on-disk documentation. If you're serious about the lottery, LOTTO-TRAX will give you lots of insights about what is happening.

(PC-SIG Disk# 1391)

Special Requirements: *CGA.*

Author Registration: *$15.00*

■ LOTTOpiks

LOTTOPIKS is a random number generator for playing six-number format state lottos. It sorts the numbers into ascending order and displays a screen of games. The Illinois and Missouri lottos are menued for the basic games, but other

states' games can be easily configured with the program by setting that game's maximum high number (6 to 255).
(PC-SIG Disk# 789)
Special Requirements: *None.*
Author Registration: *$10.00*

■ Smart Money

SMART-MONEY promises to pick lucky numbers for you for any state lottery, horse race, Keno, etc. This random number generator comes with a sense of humor and an odds calculator to show the probability of winning.

For team play, it offers a formatted agreement covering trustee, names of players, amount paid, number of weeks, and how the money ought to be split. It can generate up to 100 sets of numbers and the largest number of each set can be up to 10 million.
(PC-SIG Disk# 1329)
Special Requirements: *CGA.*
Author Registration: *$15.00*

■ Super Lotto-Master

Anyone who believes no lottery system is truly random will find a friend in SUPER LOTTO-MASTER.

Not a random-number generator, but rather a historically weighted system, this program lets you enter past winning numbers for whatever lottery you are tracking. It then computes the odds of the numbers being picked again. SUPER LOTTO handles three, four, five, six, and seven-number games and prints its choices in a list that ranks best to worst. You can also add in your own lucky number with the computer's — to hedge your bet. The program is menu-driven and requires no mathematical or computer skills to operate. As soon as you've entered at least 10 numbers, the program is ready to make predictions for you.
(PC-SIG Disk# 1407)
Special Requirements: *None.*
Author Registration: *$15.00*

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Lottery Fun Keep track of all the winning numbers and numbers you have bet in "6/49" lottery games. Get a list whenever you need it. Source code included for the tinkerer. See *Lottery.*
(PC-SIG Disk# 749)

Lotto Fever A different approach to discovering those elusive winning numbers with a combination of astrology and numerology. See *Lottery.*
(PC-SIG Disk# 929)

Lotto Magic Wheeler Play the lottery and win! This program uses a special way of picking your numbers called "wheeling" which is an effective way of making big bucks. See "Miscellanous Games and Lotto" listed under *Games, Board and Dice.*

Lotto Master Professional A many-featured program to assist you in deciding how to play Lotto. This is designed for 6/49 games and tracks the numbers you've bet before. See *Lottery.*
(PC-SIG Disk# 1318)

Lotto Prophet The number one lottery program on GEnie, CompuServe, and The Source. It uses the latest methods to pick a winning number. See *Lottery.*
(PC-SIG Disk# 1006)

Lotto-Trax Menu-driven system which helps you analyze, compare, forecast, display, store, and maintain all your lottery numbers and those numbers selected by up to three different games. See *Lottery.*
(PC-SIG Disk# 1391)

LOTTOpiks LOTTOPIKS is a random number generator for playing six-number format state lottos. See Lottery.
(PC-SIG Disk# 789)

Lotus 1-2-3 A commercial spreadsheet which originally set many standards for spreadsheet operation. Today there are numerous look-alike programs which function as well or better than Lotus 1-2-3, some of which are in the PC-SIG Library. For programs see *Spreadsheets*.

Lotus Financial Worksheets Accounting and cash flow worksheets for small businesses. See *Spreadsheet Templates*.
(PC-SIG Disk# 304)

Lotus Learning System A thorough Lotus 1-2-3 tutorial that covers all the bases from the command menu structure to the application of imbedded features and the full use of the keyboard. See *Spreadsheet Utilities and Education*.
(PC-SIG Disk#'s 846, 847)

Lotus Worksheets and Macros A collection of technical notes, utility programs, operational hints, and miscellaneous templates. See *Spreadsheet Templates*.
(PC-SIG Disk# 301)

LoveDOS This program gives a whole new meaning to "personal" in personal computer. Pre-install LOVEDOS on a friend's machine and sit back and watch 'em blush! See *Practical Jokes*.
(PC-SIG Disk# 1403)

LPT1, LPT2 The names DOS gives to the first and second parallel printer ports.

LQ Printer Utility Your dot matrix printing can have a near-letter-quality look. Added on is a 400K print spooler. You can also create logs and modify character sets. See *Printer Managers*.
(PC-SIG Disk# 718)

Lst-Mgr LIST-MGR searches and selects records from a text file, such as a list of addresses, clients, customers, members, and such. See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk# 935)

LSTSQR LSTSQR carries out a least-squares fit of data to a variety of functional forms including linear, logarithmic, polynomial, and exponential. See *Math and Geometry Programs*.
(PC-SIG Disk# 925)

M

Machine Language Machine language is the binary language computers really understand and can execute directly. This language consists of ones and zeros, has neither grammar nor sentence structure, and usually can be understood only by the computer. Most programming languages are translated into machine language by a compiler or interpreter. The machine code or language output by a compiler is called object code.

MacPaste Draw, edit, save, and print MacPaint pictures on your PC. Create slide shows, and more. See *Paint and Drawing Programs*.
(PC-SIG Disk# 1001)

Macros, Keyboard A feature of many software programs, permitting a series of keystrokes to be combined into a single keystroke. For instance, someone might use the term "temporarily approved" repeatedly in wordprocessing. A macro would allow the user to type out the phrases by pressing one key. In programming, a macro is a user-defined abbreviation for one or more lines of code. For programs see *Utilities, Macro Programs*.

Macros, Spreadsheet See *Spreadsheet Templates*.

Magic Menus Operate DOS and all your other programs from simple pop-up menus. Ten menus controlling 10 programs each can be constructed. Context-sensitive help. See *Menu Programs*.
(PC-SIG Disk# 1196)

Mahjong This is the computer version of the ancient oriental card game. Play against three electronic opponents. See *Games, Board and Dice*.
(PC-SIG Disk# 641)

MahJongg MAH JONGG is based on an ancient Chinese game that has been around for centuries. The object of the game is to remove as many matching tiles from the playing board as possible. See *Games, Board and Dice*.
(PC-SIG Disk# 1221)

Mail It! A flexible point-and-shoot mailing list system that handles up to 1000 records and prints labels. See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk# 1064)

Mail Lists, Address Managers, and Telephone Organizers

■ Address Book

ADDRESS BOOK is an efficient way to keep the names, addresses, and phone numbers of your customers and vendors in good order and up-to-date. It is designed for a small to mid-sized company. Included is a way to add, edit, and delete your addresses, and a printer menu to print any or all of your addresses. Keep track of your personal and business address and telephone lists with ease.

(PC-SIG Disk# 988)
Special Requirements: *None.*
Author Registration: *$25.00*

■ Address Manager

ADDRESS MANAGER helps you keep multiple databases of names, addresses, phone numbers, and useful comments. You can add new entries and delete or update current ones easily.

The program is especially designed to address envelopes — always a problem area, as well as print labels and even entire mailing lists. Labels can be printed on sheets from one to four across, and all entries can be sorted by zip code before printing.

ADDRESS MANAGER menus are function-key driven. On-line help is available from each menu. This provides a quick and user-friendly interface, one that is easy to learn and use.

(PC-SIG Disk# 218)
Special Requirements: *A version of BASIC.*
Author Registration: *$20.00*

■ Catalist

CATALIST is a comprehensive list manager to produce labels, envelopes, Rolodex cards, and bulk-mail flyers. It formats data from each entry that is easily merged into more than 15 of the most popular wordprocessing packages, including PC-Write. The program can also format for foreign addresses including postal codes for 106 countries.

At least one help screen is given for each main screen in the system, giving beginner and intermediate users plenty of needed help. For data entry and modification, a legend is shown at the bottom of each screen defining the function keys and their specific functions.

ASCII file format is used throughout the entire database system, which helps in compatability with most other software in the computer world.

(PC-SIG Disk#'s 864, 865)
Special Requirements: *Two floppy drives or a hard drive.*
Author Registration: *$66.00*
User Comments: *"Very detailed information manager. Useful for large lists of data."*

■ Directory Assistant

The DIRECTORY ASSISTANT is ideal for the busy person like yourself. It helps you organize name and address information for use in your personalized phone books, mailing labels, and on-line phone number look-ups. It also helps you keep track of your meetings and events. It is completely menu-driven and has a help option at each prompt, as well an on-line help menu. The documentation is very easy to read and understand. It is well-organized and gives manay examples. Fine for the novice computer user.

(PC-SIG Disk# 748)
Special Requirements: *None.*
Author Registration: *$15.00*

■ Dmail

DMAIL makes mailing list management a breeze. If organizing your mailings has ever been a problem, then DMAIL will simplify the work. Create any number of master and subsidiary lists, tag addresses with key words, sort on any of nine fields and target mailings down to the city block. DMAIL has printing features and options that make any printer a more useful machine whether you are using an HP LaserJet, dot matrix, or daisywheel. Print addresses directly on envelopes if you prefer not use computer labels. It also prints Rolodex cards as well as two different kinds of quick-reference lists. If you are sending personalized letters, DMAIL will also create name and address files for Word Perfect, Microsoft Word, and Wordstar.

DMAIL makes it a snap to identify and locate those individuals in a master list who have something (anything) in common. Through the key word tagging feature you can automatically create a sub-list of people who satisfy any condition you choose. Lists can be joined, split, and sorted according to your particular needs.

DMAIL is being used by institutions and businesses that need to organize mailings to as many as 15,000 people. It eliminates repetitive typing, and has added reporting features, and a streamlined envelope printing function. It is completely menu-driven. The number of addresses stored is limited only by disk space.

(PC-SIG Disk# 1172)

Special Requirements: *512K RAM and a printer.*
Author Registration: *$35.00*

■ Doctor Data Label

DOCTOR DATA LABEL is a professional mailing list manager designed for adding, editing, organizing, and printing mailing lists, including international mailings. Print on any size label (up to nine labels across), Rolodex cards, postcards, and envelopes. Print multiple copies of a single label.

DOCTOR DATA LABEL has an optional carrier route presort number for all its data entries for bulk mailings. You can index, filter, or sort using all fields, as well as rename, copy, delete, join, divide, and back up the data files. Files created with DOCTOR DATA LABEL are compatible with dBase.

(PC-SIG Disk# 943)

Special Requirements: *512K RAM and two floppy drives.*
Author Registration: *$89.00*

■ Easy-Plan

EASY-PLAN stores names, addresses, telephone numbers, and comments. This program can be used to create mailing lists of customers and suppliers for your business or for personal mailing labels.

In addition to mailing labels, you can print a variety of reports from the data entries. Each record contains the company name, personal name, address, home and work phone, and an additional note or memo. Records can be added, edited, deleted, viewed, and searched. Sort according to one of the selections provided or according to your own customized index.

(PC-SIG Disk# 896)

Special Requirements: *Printer and labels.*
Author Registration: *$99.95*

■ Lst-Mgr

LIST-MGR searches and selects records from a text file such as a list of addresses, clients, customers, members, and such, if it detects the presence of a specific string or set of strings.

Each retrieved record can have up to five labeled fields (e.g., name, street, city-state-zip, expiration date, notes). The number, length, or sequence of fields need not be the same for different records.

You can send selected records to screen, printer, a new disk file, or any combination of these. You can change the within-record field sequence in the output records, omitting some fields altogether if you want.

(PC-SIG Disk# 935)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Mail It!

Print mailing labels without investing in an expensive or hard-to-learn database program. With point-and-click menus, it's perfect for small businesses, churches, interest groups, etc.

MAIL IT is flexible enough for most mailing needs. It lets you enter up to 1000 individual records and search most fields for information to be printed. Several label-printing options are offered, but label printing is limited to single-column labels. And, there's even a help file of state abbreviations.

(PC-SIG Disk# 1064)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Mail Monster

MAIL MONSTER is an extremely flexible mailing label manager for any size application. You can define the categories to fit your lists of people and/or organizations.

You can organize your mailing lists and print highly specialized selections. You can add, edit, sort, and print mailing labels in many different configurations. For example, print only those labels that need to reach a specific group — by targeted organization, zip code area, etc. Also included is a mailmerge feature to merge-print letters, as well as a personal telephone directory.

(PC-SIG Disk# 483)

Special Requirements: *320K RAM and two floppy drives.*
Author Registration: *$10.00 to $15.00.*

■ NamePal

NAMEPAL is the complete automatic address book. It keeps lists of names, addresses, phone numbers, and related comments, and prints them in a pocket-size "book" you can use anywhere. NAMEPAL works on plain paper with any printer — even lasers. You can optionally print on both sides of each page, and you can code your data to keep track of club members, birthdays, babysitters, or any other grouping. It also performs other handy tasks, like printing mailing labels, Rolodex card files, and full-page rosters. NAMEPAL is also completely menu-driven, and has on-line help screens.

(PC-SIG Disk# 706)

Special Requirements: *None.*
Author Registration: *$19.95*

■ PC-Mail

PC-MAIL is a menu-driven mailing list and address management program which will print mailing labels, keep track of addresses, and allow you to delete the older ones.

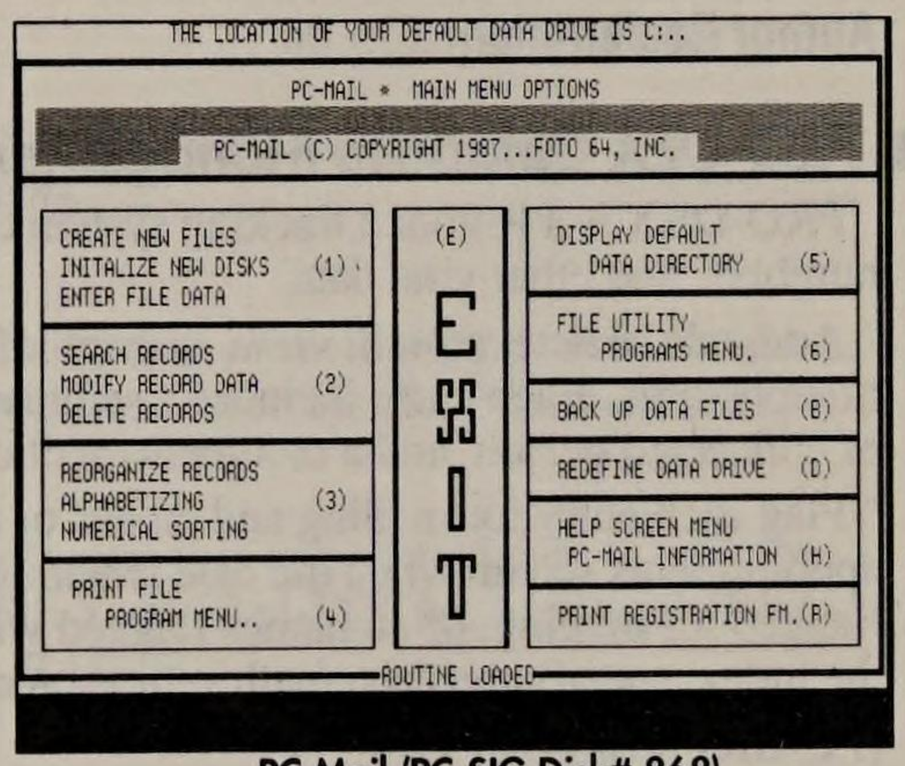
PC-MAIL's sort function alone makes it worth the money. With this, you can sort on any field in a matter of seconds. All menu routines provide a listing of the options available to the user, making the program easy to use. Each program function opens with an introductory screen, explaining the functions provided. Just follow the instructions on the screen and it will explain what to do next.

The type and size of labels are user-specified. Widths can run from 2-1/2" to 5" and height ranges from 1" to 2-1/2."

PC-MAIL is not just another mailing list program, but a fully functional package which will greatly assist you in your home or business.

(PC-SIG Disk#'s 868, 869, 1475)

Special Requirements: *Two floppy drives and a printer.*
Author Registration: *$25.00*



PC-Mail (PC-SIG Disk# 868)

■ PC-Postcard Plus

PC-POSTCARD PLUS uses your standard dot matrix printer to produce and address postcards with your custom message, such as business announcements, reminders, and social invitations. Even does double postcards!

With first-class mail costing 25 cents and bulk mail now almost 17 cents a piece, postcard mailings have suddenly become the darling of thrift-minded businesses and organizations. You get first-class delivery and immediate attention for just 15 cents. Here's a program that lets you produce customized postcards — both singles and doubles, with or without a mailing permit — and even individually addresses them!

Using standard-sized (4x6) pin-fed postcards, PC-POSTCARD PLUS prints a message 22 lines by 55 characters, an address, and an optional header for the return address, postal mailing permit stamp, etc. It has formats for your messages for both sides of a single or double postcard. Double postcards are great as they allow for a tear-off response card for orders, RSVPs, membership events, etc.

Addresses are automatically inserted as each card prints. Mailing lists can be built, added to, and sorted up to 10 different fields. Since PC-POSTCARD PLUS was written by Carl Mieske, author of PC-MAIL (PC-SIG Disk#'s 868, 869, 1475), PC-MAIL mailing lists are compatible for use with this program, but not required.

(PC-SIG Disk# 1361)

Special Requirements: *Pin-feed postcards and a dot matrix printer with tractor feed.*
Author Registration: *$25.00*

■ Phone Caddy

PHONE CADDY is a complete mailing list manager. It lets you update and maintain your mailing list and prints addresses on labels, Rolodex cards (two sizes), and standard office envelopes. You can even specify the size of the labels.

Each PHONE CADDY address record includes fields for an ID number, group code, whether it is for an individual or business, first and last name, spouse name, address, and home and work phone number. For businesses, an extra address line is included along with a contact name. You select the order of printing according to any field in the record and also select the group of addresses to print according to the group codes.

(PC-SIG Disk# 1154)

Special Requirements: *320K RAM.*
Author Registration: *$15.00*

■ Pocket Filer & Pocket Notes

POCKET FILER and POCKET NOTES are two programs that make double-sided pocket address or note booklets from the entries in the program.

Entries can be edited, deleted, sorted, searched, and saved. Print a hard copy in a pocketbook format that will fit into a checkbook cover. Each program also allows you to page through and browse the records.

(PC-SIG Disk# 896)

Special Requirements: *Printer.*
Author Registration: *$25.00*

■ PRO-DEX Database Management System

PRO-DEX is a Rolodex tracking system that stores and maintains an index of names, addresses, telephone numbers, and other vital data.

Add, edit, delete, search, view, or print information. Search by name, address, city, state, firm/company, or title/position. Each entry includes a standard industrial code, a business/home phone, date of contact, a staff initial of connected person, and a comments section.

Flag each entry for mailing and labels, or to call again on a future date. The entry will appear on the appointments screen when the date is within two weeks of the current date. Print single mailing labels, all names flagged for mailing, or all names flagged with a particular status. The utilities menu lets you back-up files, update the index, specify the drive/path setting, and enter your company name to be displayed on the logo of the program.

(PC-SIG Disk# 927)

Special Requirements: *356K RAM and a hard drive.*
Author Registration: *$50.00*

■ Reliance Mailing List

RELIANCE MAILING LIST is a fast and sophisticated mailing list program that should be useful to many groups, including political parties, charitable organizations, and small businesses.

Print mailing labels four-across, select groups of people from the database by specifying up to eight criteria and create a mailmerge file. Handle as many records as you have disk space for.

(PC-SIG Disk# 503)

Special Requirements: *Two floppy drives and a printer with 132 column mode.*
Author Registration: *$25.00*

User Comments: *"Very useful to keep track of of user group members' dues." "A snap to learn. Excellent documentation."*

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Mail Merge Process of combining a list of names and addresses from a database to a specific letter, document, or report. Mail merge, for instance, would allow the names and addresses of different people to be printed at the correct location on multiple copies of the same letter. This way each person would receive a personalized letter. For programs see *Word Processors, Text Editors, and Outliners.*

Mail Monster A mailing label manager that prints labels from the mailing lists of your club members, customers, Christmas cards, etc. Included is a mail merge function. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 483)

Maintenance Record Keeping, Automotive See *Auto/Vehicle Management.*

MakeMyDay A complete, computerized time management system — An appointment calendar, a job scheduler, a time log, and an expense account manager. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 618)

Management Action Expert An all-purpose expert system shell ready for you to define its knowledge. Consult the system for help in decision-making. See *Artificial Intelligence.*
(PC-SIG Disk# 976)

Management Mentor A managerial training tool for the motivated. Test your skills as a manager in 12 areas. See *Personnel Management.*
(PC-SIG Disk# 1156)

ManageX I A timekeeping and billing tool for the small to mid-sized business. See *Accounting, Billing.*
(PC-SIG Disk# 888)

Managing People A set of questionnaires designed as a management training course to help you assess and improve your "people" skills. See *Personnel Management.*
(PC-SIG Disk# 1316)

Managing Your Food Here's complete control over your diet — using your own recipes, determine the nutritional value and caloric count of everything you eat. See Health Management.
(PC-SIG Disk# 1056)

Managing Your Money Written by an economics professor, this is a companion to and contains all the programs referenced in the book "Managing Money With Your IBM-PC" by A. Glazer (Prentice-Hall, 1985). Includes BASIC source code. See *Programming, BASIC.*
(PC-SIG Disk# 613)

Mandelbrot & Julia Set Generator Generate beautifully detailed patterns that represent mathematic relationships as described in the branch of mathematics called "fractal geometry." See *Fractals and Mathematic Based Graphics.*
(PC-SIG Disk#'s 1076, 1241)

Mandelbrot Magic MANDELBROT MAGIC generates color displays of the Mandelbrot Set, a famous group of mathematical structures also known as fractals. See *Fractals and Mathematic Based Graphics.*
(PC-SIG Disk# 841)

Mandelbrot ZoomLens Create fractals on your CGA monitor. These are beautiful graphic representations of complex mathematical relationships. See Fractals and Mathematic Based Graphics.
(PC-SIG Disk# 1326)

Manuscript, Record Keeping See *Databases.*

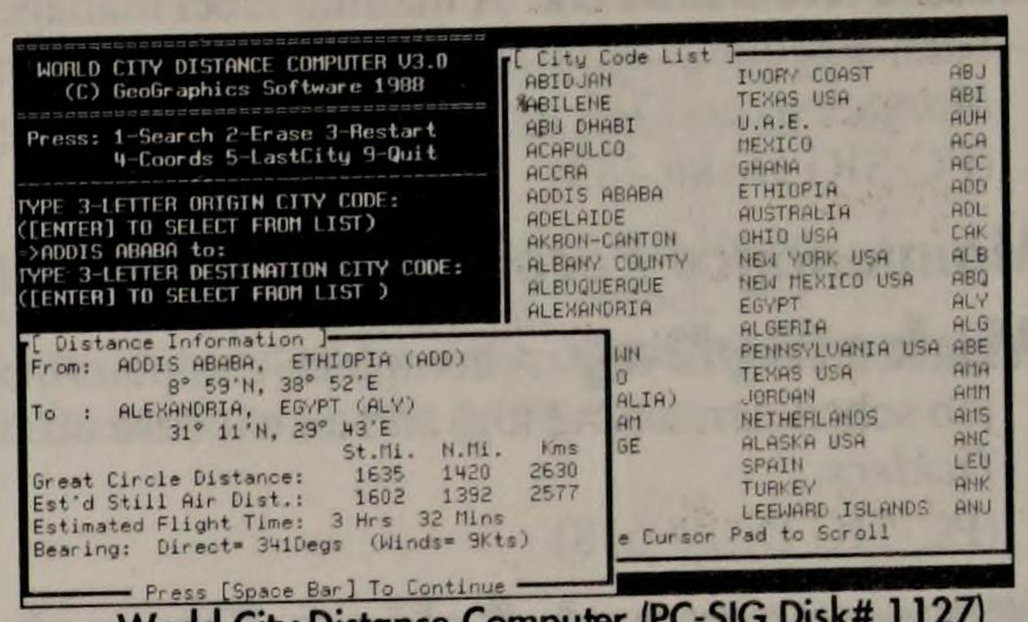
Maps

■ WORLD CITY DISTANCE COMPUTER

The WORLD CITY DISTANCE COMPUTER is designed to provide distance and travel time information between more than 400 different world cities, including most major US cities. The program is windowed, menu-driven, and self-explanatory.

(PC-SIG Disk# 1127)

Special Requirements: *None.*
Author Registration: *$15.00*



World City Distance Computer (PC-SIG Disk# 1127)

■ World Digitized, The

The WORLD DIGITIZED is a compilation of more than 100,000 points of latitude and longitude that form the outlines of the entire world's coastlands, islands, lakes, and national boundaries in great detail.

This is a pure database and has no programs to display the data. Create your own program designed to use the data or obtain a starter display program to customize with your own ideas. The basic display disk is made available to those who register.

It really is a small world and now you can have it all.

(PC-SIG Disk#'s 494, 495, 496)

Special Requirements: *Hard drive recommended.*
Author Registration: *$12.00*

■ World29

Track hurricanes or plan a trip around the world in 80 seconds or less with WORLD29, which generates maps of the world, continents, countries, and even the individual states of the USA...plus quizzes you on your geography knowledge!

The perfect program for Phineas Fogg. Some of the major features are:

- 150 national capitals plotted
- 50 state capitals plotted
- Many major cities plotted
- Hurricane tracking
- Creation of custom plots by latitude and longitude
- Distance calculations

Global and area projections are centered on:

- Latitude and longitude
- Selected cities
- Custom locations

There is also a game called "Name The Cities." The program plots and shows a point somewhere on the world map and it is up to you to guess what the name of the city is.

(PC-SIG Disk# 1392)

Special Requirements: *CGA.*
Author Registration: *$25.00*
➤***ASP member.***

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Maptab World Culture Database An ethnology database that lets you search and compare different cultures' beliefs, practices, and religions. See Reference Materials (books/articles/information/data).
(PC-SIG Disk# 920)

MarketEGA/CGA Menu-driven program that performs sophisticated technical analysis on stocks, mutual funds, and commodities. See *Investment Management.*
(PC-SIG Disk# 1153)

Marooned You are stuck on an alien planet with no women. The only way to get off is to build up an alien spaceship you have run across. A text adventure game. See "GameScape, Space Slug, Marooned & Ring" listed under *Games, Adventure and Text.*

Mass Spectrometer See *Chemistry and Physics.*

Master Key Similar to Norton Utilities. An open door to your MS-DOS disks. Edit disks by the sector, search, erase/unerase, and more. Top rated program! See *File Management Utilities.*
(PC-SIG Disk# 598)

MasterDOS Save yourself some time by cutting down on the keystrokes needed for DOS commands. You specify what one-key commands will relate to a DOS command. See "Utility Potluck" listed under *File Management Utilities.*

Masterfile Disk Management System MASTERFILE is a disk file-cataloging program that lets you tag and then locate files on your floppies or hard disk by name or tag. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 981)

Math and Geometry Programs

■ Algebrax

Cringe no more when menaced by that ominous-looking algebra problem! You now have ALGEBRAX to help you overcome your fear of mathematics. Some of the enhanced features in this package which are hard to find in other tutorials are:

- Random generation of all problems — you will never have the same problem twice
- There are five levels of difficulty for each lesson plan with five questions at each level
- After each correct answer, you will be branched to a more difficult problem
- There are no multiple choice problems (sorry, no guessing)
- Alternate answers are accepted. Most programs will allow one correct answer only, but ALGEBRAX knows there are different ways to write mathematical solutions
- When a wrong answer is given, ALGEBRAX will take you through the problem step-by-step
- All lesson results are saved by the program and can be reviewed on screen or printer

Most important of all, ALGEBRAX was written by a math professor with over 25 years of experience.
(PC-SIG Disk# 1456)
Special Requirements: *CGA.*
Author Registration: *$30.00*

■ Are You Ready For Calculus?

A well-written pre-calculus tutor program designed to help students review the basics of algebra and trigonometry.

These programs give quizzes on those sections of algebra and trigonometry essential to calculus. There are two programs, one to prepare you for Calculus I, and another for Business Calculus. The differences are that the quizzes are easier in the Business Calculus section and there are less topics to review.

You'll have several choices to choose from. The instructions are written so you can start using the program right away. The quizzes are multiple-choice and the different answers are well chosen. The program is conveniently presented to the user with different window layouts.

If you don't know how to answer a particular question, ask for help. You'll get a help screen which covers the topic of your quiz.

If you want to take calculus next quarter or semester, this program is for you.

(PC-SIG Disk# 858)

Special Requirements: *None.*

Author Registration: *None.*

User Comments: *"Easy to use. Menu driven. Reinforces algebra basics." "Friendly, well structured, and bulletproof. Very good." "Develops self esteem while teaching. The problems help students think things out."*

■ Curvefit

Burnt out on Euclid? Got the Newton blues? If you're a weary mathematician or a bogged-down high-level math student, CURVEFIT is an excellent program for you. CURVEFIT performs a least-squares curve fit on X, Y data. Curves for 25 equations are fitted. Equation coefficients, correlation coefficient, and best fit are computed with your data. CURVEFIT can make predictions for Y in any of the 25 equations. The program does not include any graphics.

(PC-SIG Disk# 707)

Special Requirements: *None.*

Author Registration: *$10.00*

User Comments: *"Curvefit seems more acurate than some other curve fitting routines. Its inability to draw curves sometimes makes things harder."*

■ DataPlot

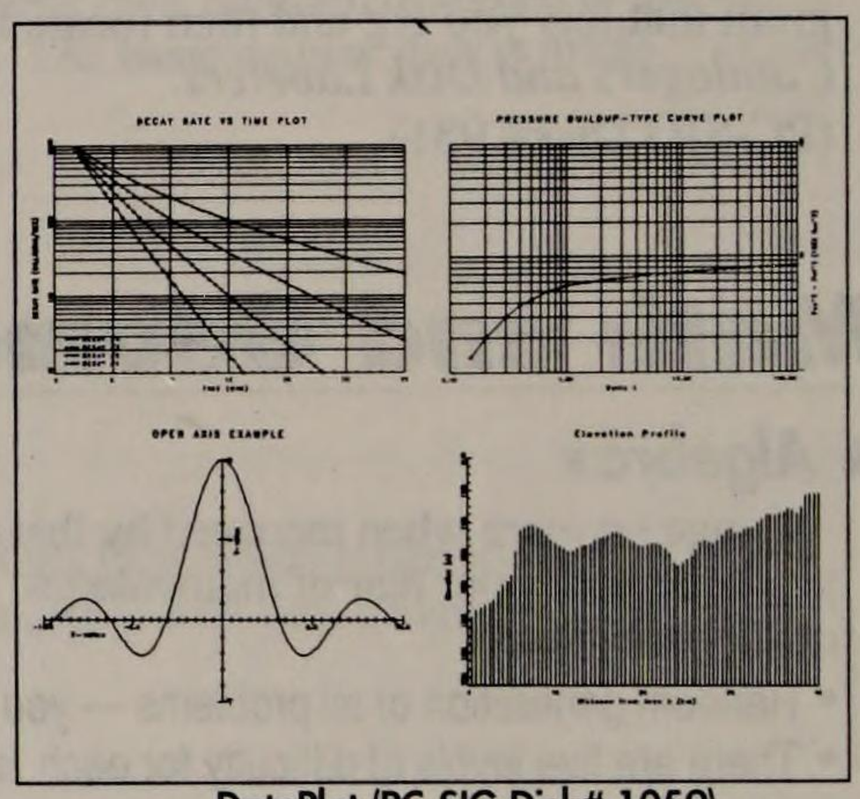
Here's a useful two-dimensional plotting system for scientific and engineering data which is powerful enough to produce publication-quality graphs.

Capabilities include menu-driven operation; a full-function setup editor; support for a variety of graph types, axis styles, and plot styles; a save-to-disk capability; linear, and single-cycle/multiple-cycle log plots; several plot styles; up to 10 curves in a single graph; and support for most common graphic adapters and HPGL-compatible plotters.

(PC-SIG Disk# 1059)

Special Requirements: *HPGL compatible plotter and CGA, EGA, or Hercules graphics.*

Author Registration: *$68.00*



DataPlot (PC-SIG Disk# 1059)

■ Differential Equations and Calculus

These programs visualize and solve high-level mathematical equations, conveniently graphing them for you on an EGA monitor. Great for students, scientists, or anyone who just enjoys math.

The DIFFERENTIAL EQUATION program can solve a variety of both ordinary and partial differential equations. You can also integrate factors of an equation, and create a graph of power series solutions.

Use the CALCULUS program to find the derivatives of an expression in x and/or y. Other features include graphing functions of y=f(x), graphing first and second derivatives, solving and graphing parametric equations, finding the integral of simple functions, and finding the surface contour of a function z=f(x,y).

(PC-SIG Disk# 1072)

Special Requirements: *EGA.*

Author Registration: *$30.00*

■ EPISTAT

EPISTAT has a set of routines for analyzing small data sets, and is for users well-versed in math and computer operations. The entire package is fairly complicated and definitely not recommended for the casual user. However, for anyone with a special interest — chemistry, biology, or psychology students who need a number-crunching routine in their workflow — it can be a boon.

All of the programs are written in BASIC and the source code is included.

(PC-SIG Disk# 88)

Special Requirements: *A version of BASIC.*
Author Registration: *$25.00*

File Descriptions:

AUTOEXEC	BAT	Batch file to auto boot program.
ANOVA	BAS	One and two way analysis of variance.
CORRELAT	BAS	Calculates Pearson's correlation coefficient.
CHISQR	BAS	Chi-square test.
BINOMIAL	BAS	Binomial distribution.
BAYES	BAS	Bayes theorem to calc rates of false + and - tests.
DATA-ONE	BAS	Main data entry program.
EPIMRG	BAS	Used by every EPISTAT program.
EPISETUP	BAK	Backup for EPISETUP.DAT.
EPISETUP	DAT	Used by every EPISTAT program.
FILETRAN	BAS	Transfers data from one data file to another.
EPISTAT	BAS	Guides user to proper program to use.
FORTRANS	BAS	Transfers FORTRAN to EPISTAT files.
FISHERS	BAS	Fisher's test to evaluate 2X2 tables of discrete values.
LNREGRES	BAS	Linear regression.
HISTOGRM	BAS	Graphs data sample on high resolution graphics screen.
NORMAL	BAS	Calculates normal distribution.
MHCHISQR	BAS	Mantel-Haenszel Chi-square test.
MHCHIMLL	BAS	Mantel-Haenszel Chi-square test for multiple controls.
MCNEMAR	BAS	McNemar's test or paired Chi-square test.
SELECT	BAS	Select from other programs.
SCATRGRM	BAS	Graph scatergrams.
SAMPLSIZ	BAS	Calculates sample sizes for statistical significance.
RATEADJ	BAS	Rate adjustment program.
RANKTEST	BAS	Three tests - signed rank, rank correlation and rank sum.
RANDOMIZ	BAS	Random sample generator.
PRINTDOC		Documentation file (25K).
POISSON	BAS	Calculates Poisson distribution.
T-TEST	BAS	T-test compares mean of 2 samples.
EXAMPLE		Sample data set.
XTAB	BAS	Print crosstab reports.

■ *Equator*

EQUATOR, an educational system for teaching math, science, and finance, uses a novel non-drill exploratory approach. It consists of 35 equations divided equally among the three subjects. Each equation appears on its own screen or worksheet. EQUATOR is designed to let you experiment with each equation as much as you like. The more you work with an equation, the easier it is for you to understand it, remember it, and use it at home or at school.

The following equations are in the math menu of EQUATOR:

- Area of a square, rectangle, circle, and triangle
- Hypotenuse of a right triangle
- Circumference of a circle
- Volume and surface area of a cylinder
- Volume and surface area of a cone
- Volume and surface area of a sphere
- Distance between two points

The following equations are in the finance menu of EQUATOR:

- Simple and compound interest
- Years to 2X investment and return needed to keep up with inflation
- Equivalent taxable return of a non-taxed investment
- Monthly mortgage payments and annual simple interest rate on loans
- Payoff balance on a loan
- Gross and net profit margins
- Earnings per share
- Price/earnings ratio

The following equations are in the science menu of EQUATOR:

- Celsius to Farenheit; Farenheit to Celsius
- Density ratio
- Average velocity
- Metric to English; English to metric
- Acceleration
- Force
- Work
- Power
- Pressure

(PC-SIG Disk# 249)

Special Requirements: *None.*

Author Registration: *$35.00*

User Comments: *"Good repetitive practice in using science and math formulas. Financial routines helpful." "Improved my typing speed."*

■ Interactive Matrix Calculator

Data collection for statistical analysis is made easier with INTERACTIVE MATRIX CALCULATOR (IMC). Twenty matrix areas, numbered from 1 to 20, can store 150 elements each. Since the matrices are in contiguous blocks, the capacities may be enlarged by, for instance, using every other matrix. This strategy results in 10 matrices with a capacity of 300 each. One operation at a time is performed; i.e., only one multiplication, one addition, etc. Results may be displayed at any time using the Print command.

The idea of IMC is that the researcher knows his data best. Rather than provide canned variable selection routines, the researcher is prompted for the next step each time the model changes due to the addition or deletion of a variable. At any particular step, variables that are in the equation may be deleted, or variables which are not in the equation may be added. No provision is made for residual analysis since no data is stored. This is a serious limitation of the program in terms of modern regression analysis procedures.

(PC-SIG Disk# 823)

Special Requirements: *None.*

Author Registration: *$25.00*

■ LSTSQR

LSTSQR carries out a least-squares fit of data to a variety of functional forms including linear, logarithmic, polynomial, and exponential. It allows multiple fits of the same data using the same or different functions without exiting the program. LSTSQR87 supports the 8087 math co-processor.

The program has many measures of quality-of-fit, including standard deviation and the 95% confidence interval. The program also graphs and prints the fit if desired. Data can be input by keyboard or from data files.

(PC-SIG Disk# 925)

Special Requirements: *CGA.*

Author Registration: *None.*

User Comments: *"Although LSTSQR is rather technical, it's a good application."*

■ MATH PAK II

MATH PAK II is a set of tutorials to help improve your problem-solving skills and mathematical conversion routines to speed up some math operations.

A faculty of tutorials — from the very basic arithmetic functions of addition, subtraction, multiplication, and division to solving quadratic equations, computing geometries and understanding trig functions. Included are conversion tables on ASCII-Decimal-Hex and Metric-English translations.

This set of programs can be used as an educational program to help expand your knowledge and appreciation of mathematics.

(PC-SIG Disk# 394)

Special Requirements: *None.*

Author Registration: *$9.95*

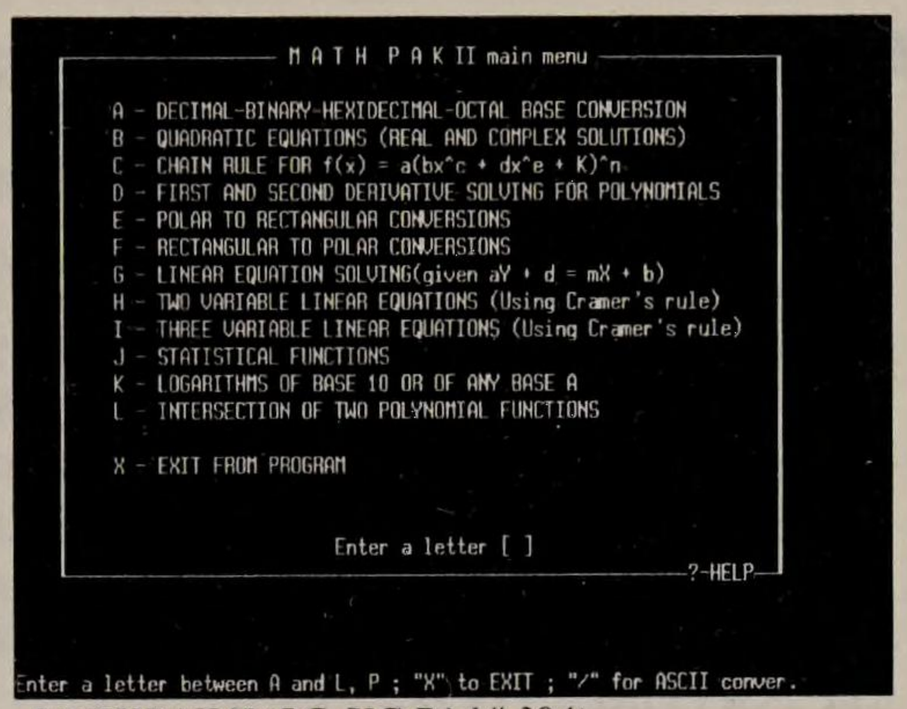
■ Mtool

MTOOL is an easy-to-use mathematical tool used to define and analyze functions of a single variable. The speed, power, and ease of use make it ideal for science, engineering, and math students.

This program can evaluate a function for a range of points or for a single point of the independent variable. It can numerically evaluate derivatives and integrals. It can find solutions for the function, and it can plot the function using CGA, EGA, VGA, or Hercules graphics.

(PC-SIG Disk# 1183)

Special Requirements: *CGA, EGA, VGA, or Hercules graphics.*
Author Registration: *$10.00*



MATHPAK II (PC-SIG Disk# 394)

■ Plot

PLOT provides a quick and easy-to-use set of tools for technical plotting. It handles rectilinear, polar, and vector plotting. After plotting your data, review a tabulation of all plotted points. It also graphs two simultaneous equations. On-line help is included for each plotting program, and the graphs are automatically scaled so all your equations are always completely displayed. The graphs can be displayed on the screen and/or printed on your printer via DOS GRAPHICS.COM.

(PC-SIG Disk# 978)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Plot

PLOT is a set of quick, easy-to-use tools for technical plotting. It can handle rectilinear, polar, and vector plotting. After plotting, you can review a tabulation of all plotted points (except for the vector program).

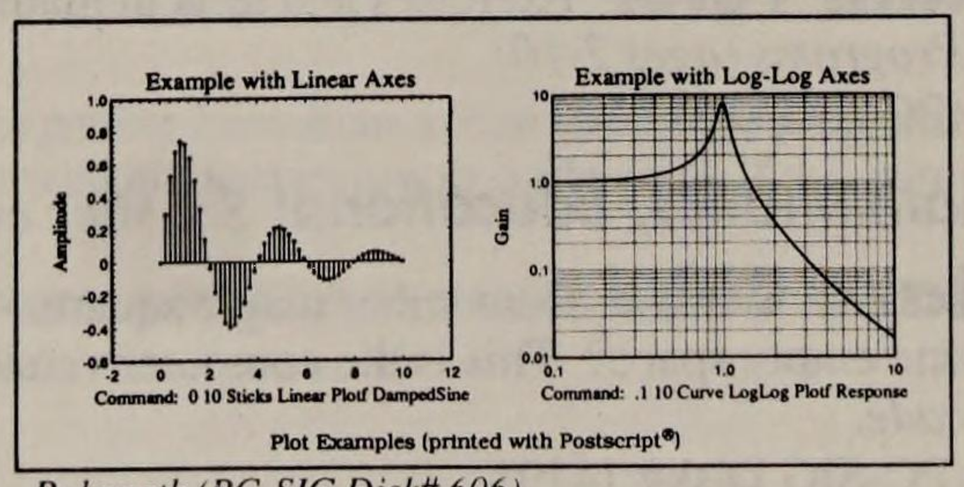
(PC-SIG Disk# 1013)

Special Requirements: *CGA and a version of BASIC.*
Author Registration: *$25.00*

■ Polymath

POLYMATH is a programming language much like Forth in structure, and developed to bridge the gap between programmable calculators and personal computer languages. Anyone in the scientific or technical fields will find this program extremely useful for its number-handling abilities and ease of use.

This language works much like the Hewlett-Packard programmable calculator and can be used as a calculator. Those familiar with the HP Reverse Polish Notation (RPN) know how simply complex formulas can be entered into the calculator. POLYMATH uses this same scheme, but with defined words or functions. Most words are defined with very simple tasks and then used and integrated with other words to build more powerful functions. An entire programming dictionary of function words can then be developed.



Polymath (PC-SIG Disk# 606)

POLYMATH has a wide variety of applications and special uses. It has strong on-line documentation which takes the first-time user through a menu-driven tutorial. It also has files that explain the syntax and use of any word currently in its main dictionary.

Included are a few dictionaries and application programs. A review of these programs will be very helpful when learning the language. It also features full graphics to round out the package.

(PC-SIG Disk# 606)

Special Requirements: *CGA.*
Author Registration: *$40.00*

■ Vibrating, Rotating, and Cooling

VIBRATING, ROTATING, and COOLING is a program that allows you to view and manipulate surfaces that are created according to a mathematical function. This should be of interest to the math and engineering student and teacher.

The main program, SURFACE.EXE, has six predefined functions plus an option to crèate a mathematical function of your own. Once a function is chosen, the program graphically demonstrates the results of the function on a plane surface. During the graphic mode you can change the speed, the axis of rotation, and the magnification of the image. The program also has the option to include a trace of the image on the screen and a help window.

VIBRATING, ROTATING, and COOLING is a versatile program that is compatible with CGA, EGA, CGA with a monochrome monitor, and VGA. In addition to the main program, this disk has two demonstration programs for computers that have smaller memory.

(PC-SIG Disk# 1182)

Special Requirements: *CGA, EGA, or VGA.*
Author Registration: *$30.00*

■ Vision Freeware

VISION is a collection of six mathematical programs which will help ease the pain of certain sequential computations. DTF converts a real number into a series of fractions, each more accurate than the preceding one until the error is less than one part per ten million. FACT calculates the factorial for any input number and FFFF defines all prime factors and powers of a given factorial. GCD computes the greatest common divisor for any two sets of factors. REDUCE defines a fraction as a product of prime factors and its real number equivalent. FACTOR determines the prime factors of a given number or declares that number to be prime. All of these programs can be installed and used with or without a math coprocessor. Documentation is included on disk.

(PC-SIG Disk# 1378)

Special Requirements: *Math coprocessor recommended.*
Author Registration: *None.*

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MATH PAK II A series of programs to teach and demonstrate mathematical procedures and principles. See *Math and Geometry Programs*.
(PC-SIG Disk# 394)

Math Tutor Exercises and tests in math for grades 1-6. Good for home tutoring. See *Children's Programs (ages 2-10)*.
(PC-SIG Disk# 95)

Mathematics, Educational See *Math and Geometry Programs*.

Maze Cube Remember magic squares — those little plastic puzzles with the 24 numbered tiles and one empty space? This is the computer version and it's all grown up! For ages 6-adult. See *Games, Arcade*.
(PC-SIG Disk# 1419)

Magee Enterprises Started by Marshall Magee, Magee Enterprises is the developer of one of the most popular shareware programs, Automenu. See "AutoMenu" listed under *Menu Programs*.

McMurphy's Mansion Uncle McMurphy's dead and he left you his fortune. This text adventure makes you find it! See *Games, Adventure and Text*.
(PC-SIG Disk# 1073)

Meal Preparation See *Food and Drink Preparation*.

MEALMATE A menu-planning program for those on carefully controlled diets. Determine the nutritional value of specific menus and acceptable substitutes. Many options. See *Health Management*.
(PC-SIG Disk# 700)

Mechanical Design See *CAD (Computer Aided Design) and Designing*.

Medical Office Record Keeping See *Business Specific Systems.*

Medical Training See *Health Management.*

Medlin Accounting Full-charge accounting system for a small business, provides General Ledger, Accounts Payable and Receivable, and Payroll. Top rated program! See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 331)

Megagopoly A game of high finance. You have the opportunity to create unlimited wealth through investments. Watch out for recessions and runaway inflation! Good learning tool, before you do it for real! See *Games, Adventure and Text.*
(PC-SIG Disk# 1194)

Membrain Create a RAM disk on your system. The RAM disk can have programs copied into it which will run much faster than a floppy or hard drive. See "Best Utilities" listed under *File Management Utilities.*

Memoirs4 Diary A private place to record your thoughts — far away from prying eyes because your diary has been encrypted and is virtually impossible to decode. See *Security — File, Disk, or System.*
(PC-SIG Disk# 756)

Memory Diagnostics See *Utilities, System or Hardware.*

Memory-Resident A computer program which resides in memory after it has been run, so it can be instantly called up later. For instance, a user may be inputting data into an accounts payable program and invoke the memory-resident program by hitting a special "Hotkey." The memory-resident program might be a pop-up calculator that can be used as needed.

Menu Master Create customized menus as "control centers" for running application programs and frequently used DOS routines. For the novice, it saves frustration. For the more experienced user, it saves time. See *Menu Programs.*
(PC-SIG Disk# 1043)

Menu Programs

■ Advanced Menu

Do you have problems in properly executing a DOS command, or getting immediate access to various programs and utilities on your computer? Are you tired of staring at a screen with no instructions to guide you? If this is so, you should take a look at ADVANCED MENU.

Most menu control programs use regular batch files to execute programs and DOS commands, but ADVANCED MENU also uses special command files that have more options.

Among these options are:

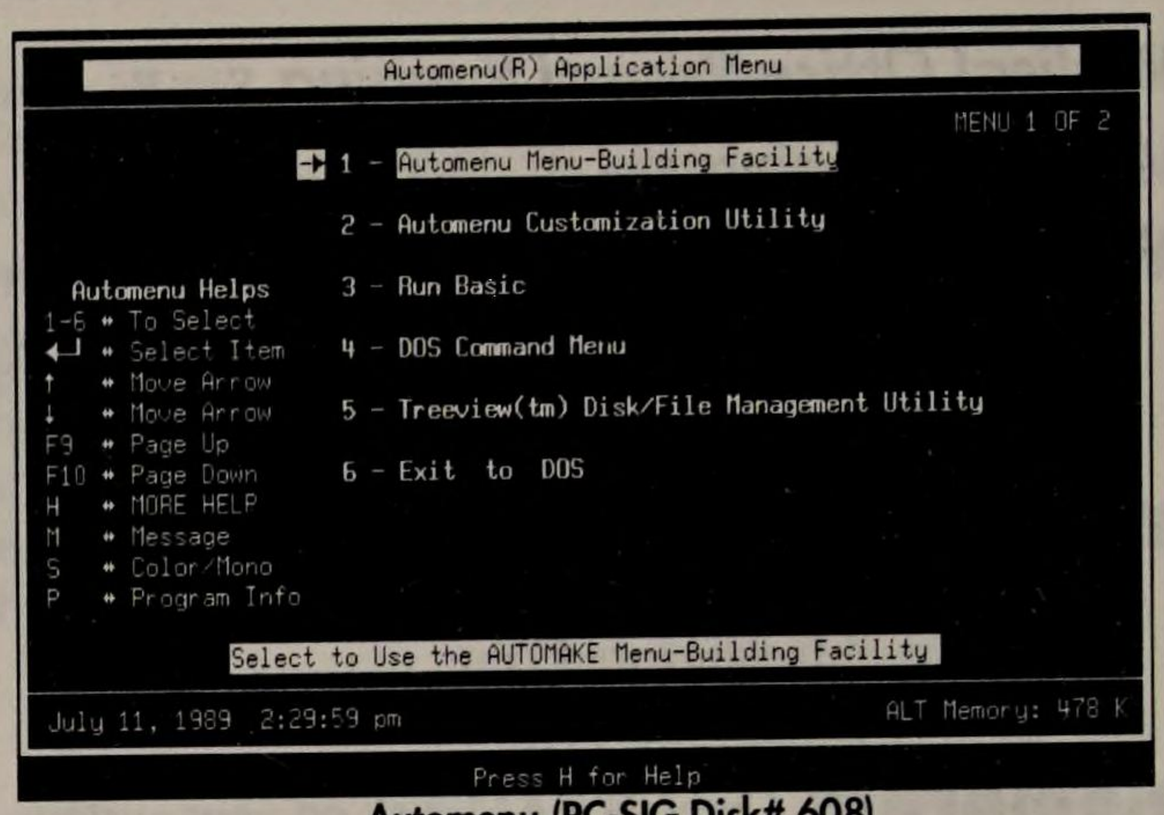
- Password protection for any menu selection, including DOS access
- Complete DOS commands entered
- Uncompleted commands finished
- Conditional command execution

A command file is created with the menu selections for the program. Each command file can have up to 32 menu selections with custom titles, and a menu command can load another command file. Command files can execute most DOS commands and work faster than regular batch files. ADVANCED MENU can handle an unlimited number of command files.

(PC-SIG Disk# 1050)

Special Requirements: *Hard disk recommended.*
Author Registration: *$39.95*

■ Automenu



Automenu (PC-SIG Disk# 608)

AUTOMENU helps you control your computer in ways you only dreamed of before. Use the Menu Definition Language to create menus for accessing frequently used programs. Forget obscure parameters while you perform DOS commands — execute application programs, batch files, and DOS commands with single keystrokes. Personalize your own menus.

AUTOMENU can prompt you for needed input for application programs. Chain from menu to menu with no limits on the number of menus. Demand different and unique passwords for different menu selections and use optional encryption of menu files. Take a nap while your computer executes menu selections according to the time of day. Short of memory? You can remove AUTOMENU from memory prior to starting an application program. Confused? Press"H" anywhere in the program for on-line help.

CGA, MDA, EGA, VGA, Hercules graphics displays and their compatibles are all supported. Try real-time switching between color and monochrome monitors. Use your mouse's sensitivity to navigate among menus. Prevent image-burning of your screen with automatic screen blanking and a periodically displayed user message.

Highlight and select menu options: function keys, number and arrow keys, numeric keypad, spacebar, mouse or voice controller, date and time display. AUTOMENU features redirection capability and support for the ANSI.SYS driver. Five sections of the 114-page user guide are tutorials for inexperienced computer users. The option to network is available to advanced users.

(PC-SIG Disk# 608)

Special Requirements: *Hard drive recommended.*
Author Registration: *$50.00*
➤ASP member.
User Comments: *"A great program. Very satisfied." "Great program. On my recommendation, the company purchased multiple copies." "Excellent menu system. A great help in organizing my hard disk files." "Nice visual screens, good documentation" "Great for ease of starting programs, especially where novices use a computer." "The best shareware program I've tried! Very professionally produced. Good tool for managing complex hard disks." "Best menuing package around!"*

■ Easy Access

EASY ACCESS is an easy-to-use hard disk menu system that gives you usage logging, a screen saver, a calendar, and reminder functions. It lets you build your own custom menus and then select options rather than having to remember specific program names in order to run that program. You can control your system with just a few keystrokes.

EASY ACCESS gives you 16 options per menu, with unlimited submenus. ou can set up user log-on ID's which restricts usage to users you've chosen and also lets you track the use of particular options, such as how many times an option is used, by whom, date and time, etc. A screen-saver option blanks the screen after a predetermined length of inactive time to prevent damage to the monitor.

You never have to miss another important date or appointment with the calendar and reminder option. The reminders can be set for: one time only, annually, monthly, quarterly, weekly, semi-annually, or every day.

(PC-SIG Disk# 1409)

Special Requirements: *Hard drive.*
Author Registration: *$20.00*

■ EasyDOS

EASYDOS provides an easy-to-use menu for performing simple DOS operations. You do not have to know the complicated DOS syntax or command line parameters.

Select the letter of your choice on the menu to copy, erase, and rename files. Get a directory of a disk to view the files it contains. Change your CONFIG.SYS and AUTOEXEC.BAT files on your boot-up disk. View each file

and either change it or leave it as it is. An on-line help function explains in detail each menu option in the program, and is very useful for DOS novices.

(PC-SIG Disk# 1176)

Special Requirements: *None.*
Author Registration: *$25.00*

■ EasyMenu

EASYMENU is a simple menu system with a few extra features that make your PC easier to use. You record the commands you use to start an application, then let EASYMENU remember for you. You can run any program at a keystroke or by clicking a mouse button. It saves you time and keystrokes when you run your other computer programs, and lets you view useful notes and comments prior to running a program. If you are new to computers, EASYMENU tells you about your computer hardware, amount of memory, number of access ports for printers and modems, the version of DOS you are using, and other useful information. If you are more experienced, you might like to know that EASYMENU can run up to nine programs per menu, and that you can use batch files from within EASYMENU.

(PC-SIG Disk#'s 738, 739, 740)

Special Requirements: *None.*
Author Registration: *$49.95*

■ EZ-Menu

Show your PC who's in charge here anyway! EZ-MENU gives you a quick and easy way to run your programs while ending the clutter and confusion of scanning through directory and file listings. Handle 200 .EXE, .COM, .BAT, and .BAS programs without breaking a sweat.

(PC-SIG Disk# 444)

Special Requirements: *A version of BASIC.*
Author Registration: *None.*

■ Front End

FRONT END is a fairly technical menu-development system of primary interest to programmers. Menus can be created for hard disks, or crowded floppies, allowing easy access to each program from the menu. The system lets you use nested menus (menu within a menu) for many more choices than would fit on the screen at once. You can also change the display colors and the size of the menu window.

FRONT END uses a unique programming language, similar in style to dBase III, and if you want to use this system's full potential, you should have at least brief exposure to some sort of programming; e.g., BASIC, dBase, or Pascal. The documentation concerns itself mostly with command syntax reference rather than programming techniques. There is a way provided to create menus without learning the language, but the full flexibility of the system is not truly available. The documentation provided (23 pages) is technically oriented.

(PC-SIG Disk# 1301)

Special Requirements: *384K RAM.*
Author Registration: *None.*

■ Hard Disk Menu III

HARD DISK MENU III is a DOS menuing system that lets you create up to 100 files of 10-page (10,000 entry) menus of macros for loading and running your favorite software or performing common DOS functions.

Easy to set up with extensive help screens. HDM-III lets you define variables and parameters to create complex command sequences. Set up passwords to prevent unauthorized access to any (or all) menu selections or functions. Support is provided for monochrome, CGA, EGA, MCGA, VGA, and Hercules cards; mouse; IBM PS/2; and networks. Control screen and window layouts.

(PC-SIG Disk# 631)

Special Requirements: *Hard drive.*
Author Registration: *$25.00 to $50.00.*
User Comments: *"Great for batch files." "I love it! My hard disk purrs!"*

■ Magic Menus

MAGIC MENUS is a program that allows you to operate DOS and all your programs from simple pop-up menus. Specific DOS commands are also included for changing and listing directories, copying files, deleting files, renaming files, and setting the time and date. You can also run any other DOS command that you wish from MAGIC MENUS, or optionally return to DOS temporarily. MAGIC MENUS also has a DOS window in which you can execute DOS commands. It even remembers the last 10 DOS commands entered so that you do not need to retype them.

With this program you may also create up to 10 menus that can automatically execute up to 100 programs. These menus may include a short menu description, prompts to switch disks, prompts for additional command line information, and a password level to restrict usage.

Additional functions in MAGIC MENUS include menu options for sending printer control codes to the printer and a pop-up financial calculator. MAGIC MENUS can also define up to 10 options for your AUTOEXEC.BAT and CONFIG.SYS files.

A setup menu is included for screen blanking, screen colors, the video mode, a password system for the program, and general file paths. MAGIC MENUS also has context-sensitive help to further simplify the operation of DOS and other program applications.

(PC-SIG Disk# 1196)

Special Requirements: *Two floppy drives.*

Author Registration: *$29.95*

➤***ASP member.***

■ Menu Master

Create customized menus to be "control centers" for running application programs and frequently used DOS routines. For the novice, it saves a lot of frustration. For the more experienced user, it saves a lot of time.

You can run applications at the touch of a single key instead of typing in commands. No more forgetting commands or DOS directory names — all these are entered one time only and MENU MASTER remembers the commands for you. It frees you from having to remember and type those complicated commands — letting you concentrate on getting your work done.

Features:

- Menu settings entered directly from program — no text editor needed
- Ability to "chain" multiple menus together
- 24 menu items with user-defined prompts, passwords, and paths
- Up to seven command lines per menu item
- Custom screen colors and individual menu prompt colors
- Personalized menu title with your own or company name
- Custom on-screen user notes
- Optional date and time display and clock chimes every hour
- Menu screen blanks after three minutes to prevent screen burn-in
- System password with extensive protection flexibility

(PC-SIG Disk# 1043)

Special Requirements: *None.*

Author Registration: *$30.00*

■ MENU, THE

THE MENU is a memory-resident program organizer that lets you access your programs with a single keystroke from a system of menus.

You can easily update and revise the menus with the editor provided. You can tailer the main menu, submenus, and keystrokes can be tailored to fit your needs. The editor can also edit batch files used for calling software programs while viewing the menu that uses them.

Included is an audible and visual appointment reminder which can be set for daily, weekly, monthly, and yearly intervals.

(PC-SIG Disk# 960)

Special Requirements: *None.*

Author Registration: *$9.95*

■ Menu-Matic

MENU-MATIC is a hard disk menuing program that lets you access various programs on a hard disk simply by selecting a menu choice.

The main menu lets you designate up to 16 different options. In addition, you can add five linked choices to each menu choice, giving you a total of 80 possible options. For example, one menu choice could be wordprocessors. This choice would then let you select from up to five different wordprocessing programs.

A menu screen that guides you through the installing and modifying your options. Other features include screen-blackout, optional password protection, and continuous display of system date and time.

(PC-SIG Disk# 1141)

Special Requirements: *Hard disk.*
Author Registration: *$15.00*

User Comments: *"MENU-MATIC beats all the big boys in hard menu systems. It's elegant and sleek."*

■ Menueze

Make menus to automatically load programs on your various disk drives. Put an automatic menu on each of the disks you use regularly.

You are prompted for the names of the programs you want included in a particular menu, then asked for the commands needed to run them. MENU-EZE lets you choose the colors for your menu screen and you can make a different menu for each of the disks in your library (including your hard disk).

(PC-SIG Disk# 936)

Special Requirements: *A version of BASIC.*
Author Registration: *$10.00*

■ MenuShow

The PC programmer who needs a way to create professional menus will enjoy the colorful presentation of MENUSHOW. A viewer-paced demo shows how ASCII files are created and converted into a menu with the nice finishing touches you admire. MENUMAKE shows you how to create your own ASCII files. MENUSHOW then converts those files into a very attractive menu. While not recommended for the novice, it is well within the capability of programmers with mid-range skills. For anyone who wants quality output, it's worth the effort.

(PC-SIG Disk# 1410)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Mr. Menu

MR. MENU can help you easily create simple menus for quick access to programs, files, and DOS functions.

You run programs by selecting a number from a menu or by highlighting a selection. You can also execute batch files. MR. MENU has multiple menus that let you easily move from menu to menu or return to the main menu. A maintenance program constructs new menus or modifies existing ones. You can either issue commands that are immediately executed or enter commands that require more input or parameters.

MR. MENU is memory-resident and is automatically returned to after the program or command is done. A configuration function lets you change the colors, default drive and directory, and opening screen titles.

(PC-SIG Disk# 944)

Special Requirements: *Hard drive.*
Author Registration: *$20.00*

■ Mymenu

MYMENU creates a start-up menu for your hard disk. A BASIC program is created by the program, and you provide a directory and the program name for each option in the menu. The menu can have up to 18 options, each having a short description of the program.

After the BASIC program is created, a few lines are entered into your AUTOEXEC.BAT file, and your menu is ready to go!

(PC-SIG Disk# 936)

Special Requirements: *A version of BASIC.*

Author Registration: *$10.00*

■ Navigator, The

NAVIGATOR is a hard disk menu program that lets you easily execute any program having the extension EXE, COM, or BAT. The menu has room for 34 programs with path information limited to five subdirectories. A summary of all menu items and parameters can be printed. If a command is not available on your menu, you can temporarily exit to DOS to perform other operations.

NAVIGATOR includes other powerful features, too. It can keep a log of your work and lets you password-protect your programs on the menu. The program also features a screen save that blanks the screen if the computer has not been used for five minutes. This prevents screen burn-in of the menus.

The menu is easy to use, has on-line help, and an automatic installation program for quick set-up.

(PC-SIG Disk# 1042)

Special Requirements: *None.*

Author Registration: *$40.00*

■ Navigator, The

Steer your way around your hard disk with a sailor's ease. No need to keep your sextant at hand — NAVIGATOR knows how to direct you there. With this hard disk menu program, you'll get around without having to remember DOS commands.

You can access programs and directories with point-and-shoot menus. The program lists up to 200 directories, programs, and files when you boot up. Twenty-three files are displayed at a time. To access a directory, or run a program, point an arrow at it and press Enter. A handy command lets you instantly move to the root directory. You can quickly display or erase files and empty directories.

Ahoy, matey! Is that a .BAT file just above the horizon?

(PC-SIG Disk# 1279)

Special Requirements: *Hard drive.*

Author Registration: *$10.00*

■ Nifty

NIFTY helps new and casual PC users to create personalized menus to run programs, copy, or read files, and do other computer tasks at the touch of a key. It even offers password protection to submenus.

Memory-resident, NIFTY can be called up from DOS or popped-up by pressing a hotkey. When called, a help lifejacket splashes onto the screen ready to save the new PC user faced with a formidable array of programs and a flat learning curve.

You can make easy-to-use menus that allow novices to quickly perform complicated computing tasks with little or no training. On-screen help files can be inserted to guide even the "first day" user through any computerized office operation. Passwords and security levels are available to control access to submenus.

Automatic program scheduling is another useful feature; you can set timers to cue and begin processing long or slow sorting and processing programs for the dead of night or other slow times, such as weekends.

(PC-SIG Disk# 1225)

Special Requirements: *Hard drive.*

Author Registration: *$50.00*

■ PC-Dashboard

PC-DASHBOARD is a program menu system to make the operation of programs on a hard disk much easier and quicker. The program consists of a main menu and a virtually unlimited number of submenus, and each menu can have up to 24 choices. From the menus you can perform DOS commands, execute your favorite programs, go to other submenus, or shell to a specific directory.

PC-DASHBOARD allows you to customize your own menu choices and easily design a system of submenus to suit your own needs. You can type in your own personalized menu prompt for each entry used to execute a program. Once you have also included a directory path, a command, and an optional password, your menu choice is created, and all you have to do is type in the letter of the entry to execute the program.

You can design your menu entry to include up to 10 separate commands, giving you the capability to execute multiple programs or commands in succession from a single menu entry if you so desire. You can also design a command so that it prompts the user for more information to complete the command. Besides all this, PC-DASHBOARD lets you change the screen colors, turn the automatic screen blank (four minutes), on or off, edit the menu titles and the on-screen notes, and choose the number of columns (1-4) for each menu.

PC-DASHBOARD's effective password protection system extends to the option to change the settings of the menus, exit from the program to DOS, specific menu entries, or access to entire submenus. In this way, several people can use the same computer yet have only restricted access to the system.

PC-DASHBOARD simplifies the operation of programs on your hard disk and controls the access to them.
(PC-SIG Disk# 1165)

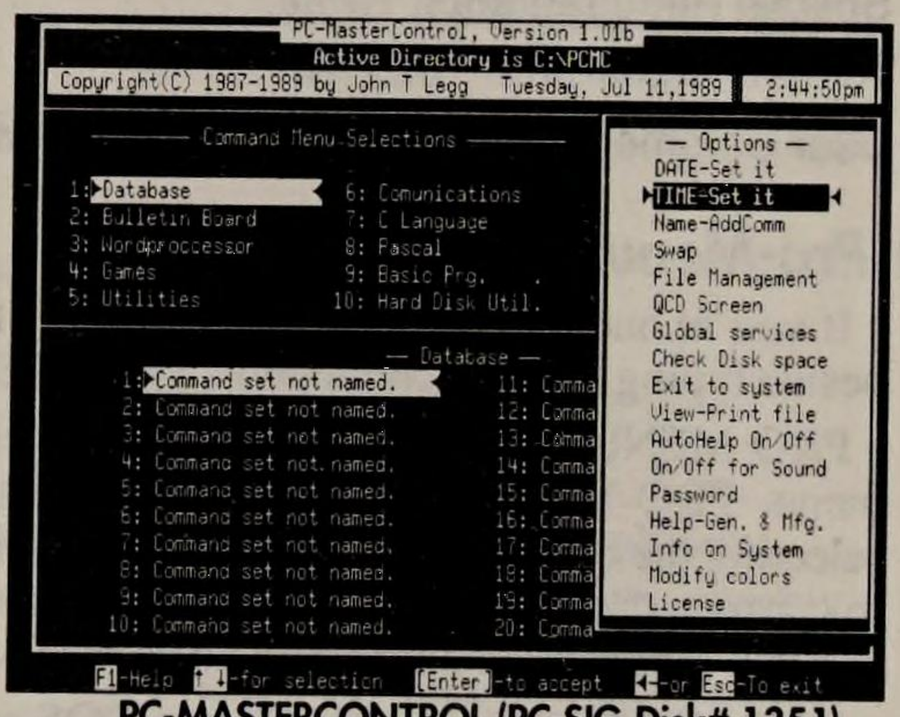
Special Requirements: *Hard drive.*
Author Registration: *$39.95*

User Comments: *"Very simple to use. Hardly had to read the documentation. Links menus easily."*

■ PC-MASTERCONTROL

PC-MASTERCONTROL (PCMC) is an in-depth custom menu and file management system for hard drives.

PCMC runs programs or DOS commands from menus, which you create, to help you stop fighting with your computer and become its friend. The menu section lets you access your programs with a single key. You no longer have to remember complex commands to run the many programs on your hard drive. You create and name your own custom menus. Then simply point to the menu you want and you're there — without a tremendous headache! The hard disk manager section lets you do all the complex DOS commands, and more, in a simple and easy-to-use format. Set up this powerful package once and let it run your PC forever.



PC-MASTERCONTROL (PC-SIG Disk# 1351)

Here are some of PCMC's features:

- Exits memory when running a menu and returns when finished — freeing up memory for your programs
- Extensive help keyed to each screen guides you through the program, as well as AutoHelp, an included tutorial
- Hundreds of command menus (macros) for the demanding user
- Built-in editor to make menus (no fancy macro commands needed)
- Built-in screen saver to avoid screen burn-in
- Insert, delete, or swap menus and macros with the press of a key
- Set the colors of any screen
- Check the total space and free space on any drive
- Copy, erase, or move one file, or hundreds of files at a time
- Find any file on any drive with the global file finder
- And much, much more!

(PC-SIG Disk# 1351)

Special Requirements: *Hard drive.*
Author Registration: *$30.00 or $45.00.*

■ Potpourri Menuing Program

POTPOURRI is a menuing system with several built-in programs. Add applications to the menu and execute them from within the system. A DOS gateway is provided so you can do housekeeping functions without leaving the main system.

Programs executable from the main menu include a programming calculator for binary, hexagonal, and bit manipulation functions; a standard four-function calculator; and an appointment calendar that can arrange and

print appointment schedules for up to 12 months. Included in POTPOURRI is a routine to describe system hardware configuration, a drawing program for sketching and a music program to create and playback music files. All the programs described have documentation screens accessible from the main menu.

(PC-SIG Disk# 919)

Special Requirements: *Hard drive.*
Author Registration: *$34.00*

■ Power Menu

Tired of subdirectories, paths, command names, and the like? POWER MENU is a program for you. It acts as a "super highway," providing easy access to any application on your PC. Wordprocessors, spreadsheets, and all of your other PC programs are just a keystroke away with this easy program. For example, with POWER MENU, your favorite wordprocessing program would be one keystroke away — the "W" key, perhaps, or any other key you select. When you exit from wordprocessing, you're back at POWER MENU and never need to interact with DOS. POWER MENU also includes context-sensitive on-line help at the touch of a key.

Up to four menus can be called onto the screen at a time, allowing for more than 10,000 selections. This also includes a powerful file manager which lets you mark files across subdirectories and perform all DOS functions on these files. You can copy, delete, or rename files, together or separately, all from the menu.

(PC-SIG Disk# 727)

Special Requirements: *None.*
Author Registration: *$89.95*
User Comments: *"Best menu maker around. Very flexible and easy to us."*

■ Pro-Menu

If you're one of those people who wishes there was some easier way of telling your computer how to do its job beside typing in DOS commands, PRO-MENU is for you.

PRO-MENU is a complete menuing system that goes beyond choosing your application from a single main menu. PRO-MENU lets you program prompts to automatically come up after a menu selection. For example, selecting the option "print a file" may be followed by the prompt "which file?" You can also add comment lines to separate groups of commands from a menu. In addition to the single line description on the actual menu you can add informational text files that appear once a menu selection is made.

PRO-MENU also lets you execute DOS commands from plain English text on the menu screen. For example, by selecting "Prepare disk in drive B:" from the menu screen, PRO-MENU can execute the DOS command "FORMAT B:/S." This is a particularly nice feature of the program.

With a hard-disk system, PRO-MENU can be arranged into separate submenus, each customized for a different application or for different users. PRO-MENU supports any number of submenus and can handle as many as you wish.

(PC-SIG Disk# 798)

Special Requirements: *None.*
Author Registration: *$45.00*

■ ProMan

PRO MAN is a menuing program to manage access to the files and directories of your hard disk.

Software applications can be executed from any of four pages of menu screens, and each file may have a password to restrict access. You may require that a password be used for entering DOS or other functions of PROMAN from the program. Single files, multiple files, or entire directories may be automatically encrypted to secure certain programs when users are in DOS.

Track who is using the computer system, and what they are using it for. Generate reports on computer access and work in a variety of parameters. PROMAN also has a time clock and a video saver. It will even park your hard drive's head before power down.

(PC-SIG Disk# 897)

Special Requirements: *Hard drive.*
Author Registration: *$30.00*

■ Pushbutton

Access programs quickly and easily with PUSHBUTTON, a menuing system that runs programs at the press of a key. The main menu has 26 submenus, and each submenu has 26 choices for your programs and path information. This gives you the capability for 676 programs. PUSHBUTTON also provides password protection for your programs.

(PC-SIG Disk# 1041)

Special Requirements: *Hard drive and DOS 3.0 or higher.*
Author Registration: *$10.00*

■ SIMS

SELECT I MENU SYSTEM (SIMS) is a memory-resident program to design, edit, and maintain menus for your computer system providing user-friendly access to programs.

Menus are created from an ASCII text source file converted into menu format. These menus greatly simplify computer operation and program access for new and unfamiliar users of your system. Not only does this program help you save time in training other users, but it also eases personal use.

A security feature can be selected that requires a password for certain options on the menu. Total freedom is given to the menu creator regarding screen layout and options specified. The number of menus that can be incorporated into the system is only limited by available disk space. The screen design controls the colors, windows, menu options, placement of options, procedure for execution, user-defined fields, and security for the menus.

In other words, you can be quite creative with this program and use it for any application you wish.

(PC-SIG Disk# 895)

Special Requirements: *Two floppy drives and an ASCII wordprocessor.*
Author Registration: *$15.00*

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Menu, menu-driven A menu is a list of choices displayed on the screen that indicates all the alternatives a user has at a certain point in a software program. Programs which boast menus that let users quickly access different modules and options are said to be menu-driven. For programs see *Menu Programs*.

MENU, THE Go directly to any application or file in your system with this memory-resident menu system. See *Menu Programs*.
(PC-SIG Disk# 960)

Menu-Matic A hard disk menuing system. Designate up to 16 options, each with five additional choices. Optional password protection is included. See *Menu Programs*.
(PC-SIG Disk# 1141)

Menueze Make menus to automaticaly load programs on your various disk drives. Put an automatic menu on each of the disks you use regularly. See *Menu Programs*.
(PC-SIG Disk# 936)

MenuShow Colorful menumaker for the PC programmer of mid-range skill level. A tuturial shows you how to create menus with all the nice finishing touches you admire. See *Menu Programs*.
(PC-SIG Disk# 1410)

MERPRN MERPRN merges several separate text files into one formatted printed text. See "Utilities Galore" listed under *Printer Utilities*.

Message Master Provide a message center in your computer. Several users of the same computer can leave messages and notes to each other. See *Communication Programs*.
(PC-SIG Disk# 988)

Metric A great time saver that will take any U.S. measurement and convert it to metric. See "Program Grab Bag" listed under *Practical Jokes*.

Metric/English Conversion See *Conversion Programs*.

MICRO-EMACS A PC version of EMACS, the mainframe wordprocessor for programmers. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk#'s 1431, 1455)

Micro-Gene Inspect the occupants of your family tree! A well-documented package to develop your family's genealogical record. See *Genealogy.*
(PC-SIG Disk# 1068)

Mind Reader A wordprocessor that actually learns as you use it, prompting you with the next probable word. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 1110)

Mini-Minder MINI MINDER is an easy-to-use rental property management system written specifically for managers of mini-warehouses or locker rental areas. See Real Estate and Property Management.
(PC-SIG Disk# 961)

Minigen Turbo Pascal programmers — Create your own screens and windowing in Turbo Pascal source code. See *Programming, Pascal.*
(PC-SIG Disk# 760)

MiniMuf Ham Radio Enthusiasts — Calculate the Maximum Usable Frequency for specified paths for any 24-hour period in GMT and print a graph of the path. See *Ham Radio.*
(PC-SIG Disk# 1315)

Minister Database Schedule readers, altar boys, communion ministers and ushers for Catholic Mass. Export your schedule to the church bulletin. See *Church Administration.*
(PC-SIG Disk# 954)

Minister's Sermon Indexer Record your sermons and keep track of when and where you've preached them. See *Church Administration.*
(PC-SIG Disk# 790)

Miscellaneous Games A collection inspired by a column in Scientific American: Hyper — A 4-D cube-drawing program; Wallpap — a program to draw intricate patterns; Wator — a life game; and Cluster — movement of stars. See *Games, Arcade.*
(PC-SIG Disk# 945)

Miscellaneous Games and Lotto Three fascinating board games and a Lotto selector. Yes — a yahtzee game for two; Run Four — a 3-D checker game; Robin — computer bingo; and Lotto Magic Wheeler — select your six lucky numbers. See *Games, Board and Dice.*
(PC-SIG Disk# 1292)

Miscellaneous Utilities Included are about twenty different utilities that perform selective PrtSc, unprotect commercial software, and utilities for Qmodem, dBase, and Microsoft Word. See *File Management Utilities.*
(PC-SIG Disk# 906)

Mix It Up If you're in a gaming mood, here is a mixture of four great entertainment programs in our library. Poker, lotto, adventure, and mystery. See *Games, Adventure and Text.*
(PC-SIG Disk# 911)

MMake Programmers — automate the process of compiling and linking a program that is contained in several (or numerous) source files. See *Programming, Tools.*
(PC-SIG Disk# 978)

MMSTAT Reduce the disk space used by your database. MMSTAT calculates the maximum, minimum, and average lengths of each field in your present database. See "FXmaster" listed under *Printer Managers.*

Modem (MOdulator-DEModulator) A device which converts electrical pulses from a computer to signals suitable for transmission over mediums such as telephone lines, coaxial cables, microwaves, and fiber optics. The most common is the telephone modem, which allows remote computers to communicate by telephone line. For programs see *Communication Programs*.

Modula-2 A programming language that stresses modular program design and was developed by Niklaus Wirth in the 1970s to replace Pascal. For programs see *Programming, Modula-2*.

Modula-2 Compiler Modula-2 compiler combined with an integrated editor, a program linker, and an execution profiler. See *Programming, Modula-2*.
(PC-SIG Disk#'s 1080, 1081)

Modula-2 Programming See *Programming, Modula-2*.

Modula-2 Tutorial A three-part tutorial comparing MODULA-2 to Pascal. Modules address functional commonalities, advanced features in common and exclusive Modula-2 features. See *Programming, Modula-2*.
(PC-SIG Disk#'s 814, 815)

Moe A memory-resident datebook/desktop manager, MOE schedules events, appointments, logs expenses and time, acts as a calculator, dials phone numbers, and offers an easy way to send printers new codes. See *Schedulers, Calendars, To Do Lists, and Ticklers*.
(PC-SIG Disk# 1225)

Monamort MONTHLY LOAN AMORTIZATION calculates and prints a monthly loan schedule. See *Loan Calculators*.
(PC-SIG Disk# 960)

MonoDraw MONODRAW provides full-screen 740x348 pixel monochrome graphics, uncluttered by on-screen menus. All the features commonly available in "paint" programs are included. See *Paint and Drawing Programs*.
(PC-SIG Disk# 1092)

Montage2 A colorful line display rivaled only by '60s music videos. A good way to show off your EGA system. See *Utilities, System, or Hardware*.
(PC-SIG Disk# 789)

Moonbeam Calculates astronomical data about the Sun, the Moon, and the Earth. See *Astronomy and Space Exploration*.
(PC-SIG Disk# 538)

Morse MORSE is a workable code-practice program for anyone who wants to learn Morse Code for an Amateur Radio Operator's license. See *Ham Radio*.
(PC-SIG Disk# 939)

Mortgage Calculators See *Loan Calculators*.

MortPlan Many mortgage calculators in a single package. Among others, calculate the amortization payment schedule for a typical loan or explore the effect of doubling your payments at random intervals. See *Loan Calculators*.
(PC-SIG Disk# 1342)

Mouse A small manual device which controls the position of an on-screen pointer. The movements of a mouse being rolled over a mouse pad correspond with the movements of the on-screen pointer. Buttons on a mouse allow the user to enter commands or grab and move data or images on the screen.

Movie Database, The Nearly 4000 movies available on videotape are described in this database. Search for movies by your favorite stars, director, or subject matter. See Movie/VCR/Music Databases.
(PC-SIG Disk#'s 311, 774)

Movie Scripts See *Word Processor and Text Utilities*.

Movie/VCR/Music Databases

■ Abstract

ABSTRACT is designed for cataloging and labeling photographs and other similar items such as sound recordings, videotapes, motion pictures, computer disks, paintings, etc. It can also be used for other database applications such as addresses, suppliers, lists, etc.

Each photo/tape/disk is described in a record that has four sorting fields and fits on a single line for easy printing and reviewing. The four fields represent categories of your choice, such as roll number, item number, frame number, name, description, date, subject matter, etc. Records can be sorted, edited, searched, viewed, and printed as reports, as well as labels to fit both slides and prints.

Each database holds 950 entries, but multiple databases can be joined for searching. Pull-down menus and help screens lead you through every option. Mouse-compatible.

(PC-SIG Disk# 1300)

Special Requirements: *Dot matrix printer.*
Author Registration: *$10.00 to $50.00.*

■ AUDIO II

AUDIO II prints nice-looking and easy-to-read label inserts to identify your personal recordings on audio cassettes. The program is designed to help you organize your music collection, but can also be used to neatly label recordings of lectures, notes, sound clips, etc.

Eliminated, from this point forward, is the tedious process of writing on the cassette inserts supplied with the blank audio cassettes. All your recordings can now have custom printed inserts that make finding particular selections less of an eye strain, while bringing a professional look of quality to your entire collection.

Each cassette insert has: two title lines (for names of artists or groups), head A/B (for the headings on the two sides of the insert), date A/B (the current date is used or you can change it), and songs (a list for each side of the cassette).

AUDIO II is menu-driven, with on-line help to answer your questions.

(PC-SIG Disk# 1438)

Special Requirements: *Printer.*
Author Registration: *$10.00*

■ Becknervision Video Database Manager

Get your video library in shape with BVIDEO, the database for cataloging and organizing records for your videotapes. Each entry includes a tape number, title, start and end memory number, machine number, category, rating, date entered, tape type, and search parameters. For each entry you can write short comments or notes in the memo section. Records can be added, deleted, edited, or searched. The reports option can print a list of tapes by catalog, rating, tape number, or alphabetical order. You can also print a list of categories and machine types.

(PC-SIG Disk# 1030)

Special Requirements: *None.*
Author Registration: *$20.00*

■ CDMASTER

CDMASTER catalogs all your compact discs, letting you quickly search for and find a specific title, tune, or artist. Each entry in the catalog has compact disc number, title, artist, and up to 15 tunes per CD. This same information can be printed as labels, disc case inserts, 3" x 5" index cards, and Rolodex-style cards.

(PC-SIG Disk# 1439)

Special Requirements: *Printer, pin-fed labels (3" x 15/16"), and pin-fed cards.*
Author Registration: *$15.00*

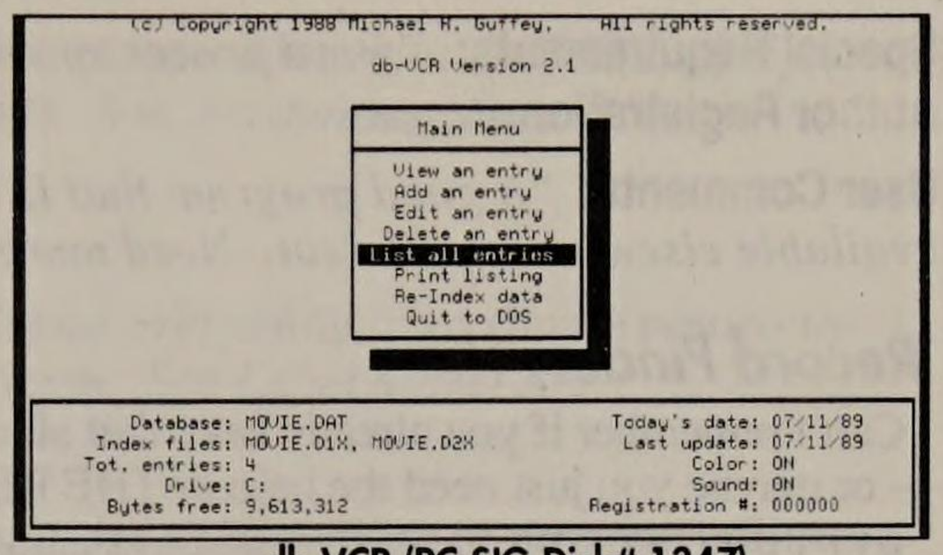
■ db-VCR

Have you ever found yourself searching through a zillion video tapes to figure out which tape has, let's say, "Top Gun" on it? And when you find it, you have to fast-forward for about 10 or so minutes to find out where it starts on the tape? Well, here is the answer you've been waiting for.

db-VCR helps you keep track of all your videos, whether they are movies, instructional videos, or music. The program maintains a database of all your VCR tapes with titles, comments, where each entry on each tape starts, and so forth. db-VCR is completely menu-driven, letting you easily add entries, search for and view specific titles and print sorted lists of your collection. Mouse support is also provided. db-VCR looks great on color systems and the menus are wonderful. It is so easy to use that it actually makes using the program fun.

(PC-SIG Disk# 1347)

Special Requirements: *320K RAM.*
Author Registration: *$17.95*



db-VCR (PC-SIG Disk# 1347)

■ Disk Drive-In Theater

Here's the answer for people who need a simple, structured way to keep track of all the movies and tapes they own.

Enter your information into one of the easiest data-input screens around. Define, recall, and search by title, star, movie type, tape number, stereo(?), remaining room on tape, and more. The database controller is faster than usual, making VCRDBASE very responsive. Print two differently configured labels for your tape library.

You know you have "The Maltese Falcon." Now you'll be able to find it!

(PC-SIG Disk# 493)

Special Requirements: *Printer recommended.*
Author Registration: *$15.00*

■ For Record Collectors

If you're a private collector, professional disc jockey, or radio station owner with a large record, CD, or audio tape collection, FOR RECORD COLLECTORS (FRC) gives a comprehensive searchable, sortable database for your collection. In fact, FRC gives you three programs: The Collector, The Advanced Collector, and The Professional Librarian.

Data fields include: song title, artist, label, producer, and up to 19 other characteristics, such as run length and year produced. FRC can handle up to 32,000 song titles per data file and an unlimited number of data files. An additional security feature prevents unauthorized file access.

(PC-SIG Disk# 1104)

Special Requirements: *None.*
Author Registration: *$59.95*

■ Home Movie Librarian

HOME MOVIE LIBRARIAN provides you with a database and catalog of your home movies, which can include movie titles, movie starting and ending positions, and quality of the recording. Another valuable feature is the ability to list movies that have a certain cast character. For example, you could list all the movies that Eddie Murphy is in. It will print several types of reports sorted by title or tape number.

The program includes a partial listing of home video movies from A-AN, which can be browsed through, added to, or printed out by type, such as drama, comedy, etc.

(PC-SIG Disk# 1266)

Special Requirements: *Hard drive.*
Author Registration: *$20.00*

■ Movie Database, The

Old movie buffs and videotape collectors — here's a database of nearly 2000 older movie titles now available on videotape. You can search each entry by title, MPPA rating, major cast members, writer, director, and other information. As you add to your collection, you can add new movies to the list with a wordprocessor or text editor.

(PC-SIG Disk#'s 311, 774)

Special Requirements: *A word processor to add data.*
Author Registration: *None.*
User Comments: *"A good program that is easy to use. The database has a lot of information which isn't available elsewhere." "Great. Need more of the same. The movie data is valuable to video enthusiasts."*

■ Record Finder, The

Can't remember if you already have that album or cut of music? Maybe you have too large a music collection — or maybe you just need the help of THE RECORD FINDER!

RECORD FINDER helps you organize your record or compact disk collection by building a database. Record information is cataloged by record accession number, record title, performer, composer, composition title, subject heading, and record label number. Menu-driven, RECORD FINDER supports basic edit and search functions. Index lists of recordings and compositions can be printed when you go out shopping for more music!

(PC-SIG Disk# 1276)
Special Requirements: *Two floppy drives.*
Author Registration: *$15.00*

■ Records & Tapes Database

RECORDS & TAPES organizes and catalogs all your records and tapes.

Ideal for anyone with large collections, this database can store up to 400 albums on a single disk and up to 32,000 on a hard disk. It lets you search for a particular album or cut by title, artist, music style, or other categories of your choice, and print lists of your entire collection sorted alphabetically or by category. It can even print individual "library cards" for each album, designed to fit in a Rolodex file.

You can display the database in several modes, two of which are hide and dim. In the hide mode, only those records meeting the search criteria are displayed. In the dim mode, the selected records are shown on the screen in bright characters, while all others appear in dim characters.

(PC-SIG Disk# 1413)
Special Requirements: *Printer.*
Author Registration: *$25.00*

■ ShowLog

SHOWLOG is for all of us who record movies and soaps off the air, but then go crazy trying to keep track of them all!

At last, here is a complete system that not only prints out labels for your collection of nameless black boxes but also helps you catalog them in a database so you can find them again!

SHOWLOG holds up to 9999 entries. You can print a catalog that shows everything in your collection, its location, the recording time left on each tape, and the taping speed.

(PC-SIG Disk# 1274)
Special Requirements: *360K RAM and CGA.*
Author Registration: *$22.00*

■ Video Librarian

VIDEO LIBRARIAN is a menu-driven database for VCR (VHS/BETA) users who want to catalog their video cassette libraries. VLB records 18 fields of information about each movie selection, performs powerful cross-referenced searches, and prints reports to the screen, printer, or disk.

You can find any title, star, co-star, director, or tape number in the datafile which can hold up to 64,000 selections — about 1000 on a 360K floppy. The program also lets you create and print professional-looking cassette labels to identify your nameless black boxes and keep your collection neatly organized. A tutorial helps you get started.

(PC-SIG Disk# 1424)
Special Requirements: *Dot matrix printer.*
Author Registration: *$25.00*

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Mr. Bill MR. BILL is the employee small businesses should hire. Itemized invoices and bills, aged A/R's, reporting functions and audit trails are only some of his skills. See *Accounting, Time-Billing Management.*
(PC-SIG Disk#'s 469, 470)

MR. Label A labeling program with many handy features. Create everything from simple reports to custom labels and print on any type of single-sheet or continuous form. See *Label Makers.*
(PC-SIG Disk# 917)

Mr. Menu MR. MENU can help you easily create simple menus for quick access to programs, files, and DOS functions. See *Menu Programs.*
(PC-SIG Disk# 944)

MS-DOS The Microsoft Corporation operating system devised for IBM-compatible personal computers. This Disk Operating Software (DOS) allows users to take control over the basic functions of their computers with plain-language commands. For most purposes, it is almost identical to PC-DOS.

MS-DOS Utilities See *File Management Utilities.*

MSFORMS MSFORMS reads a Finnigan(tm) mass spectrometer and produces a report of the resulting analysis. See *Chemistry and Physics.*
(PC-SIG Disk# 970)

MSPANTOC MSPANTOC is a document-processing utility that numbers sections, paragraphs, figures, and tables. It can build a table of contents, a list of figures, and a list of tables. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 935)

Mtool MTOOL is an easy-to-use mathematical tool used to define and analyze functions of a single variable. The speed, power, and ease of use make it ideal for science, engineering, and math students. See *Math and Geometry Programs.*
(PC-SIG Disk# 1183)

Mubbs If you've ever wanted to start your own bulletin board system, MUBBS has all the functions you'll need. See *Bulletin Board Systems (BBS).*
(PC-SIG Disk# 1458)

Multi Base A sophisticated database management system that allows you to customize all formats. See *Databases.*
(PC-SIG Disk# 971)

Multi-Assistant MULTI ASSISTANT helps you take care of your finances, calculate lending figures, manage your telephone and mailing lists, inventory your investments, and keep your calendar. See *Accounting, Checkbook Management—Home.*
(PC-SIG Disk# 1423)

Multi-Merge MULTI-MERGE facilitates adding, editing, deleting, sorting, and printing information for later merging into your wordprocessing merge documents. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1152)

Multifile MULTIFILE is a memory-resident, menu-driven database program designed specifically for mailing labels and envelopes, membership files, or small inventories. See *Databases.*
(PC-SIG Disk# 835)

Multitasking The execution of more than one program at the same time on a single computer. During that time, the computer can switch from one program to the other. For instance, this might allow a user to be writing a letter with a wordprocessor while the computer is crunching spreadsheet numbers in the background.

Muse For authors and literary agents to track the circulation of manuscripts to publishers. See *Databases*. (PC-SIG Disk#'s 635, 636)

Music

■ Christmas Concert Volume 1

Using shareware's PIANOMAN (PC-SIG Disk #279), Nancy Moran produced two self-running, outstanding 20-minute Christmas concerts. In Volume One, Ms. Moran took the basic Christmas carols and brought a multiphonic majesty to them not often heard in computer-generated music. The carols can be played one at a time or as a concert.

Christmas favorites included are:

- "O Come All Ye Faithful"
- "Angels We Have Heard On High"
- "Away In A Manger"
- "The First Noel"
- "God Rest Ye, Merry Gentlemen"
- "Hark the Herald Angels Sing"
- "Joy to the World"
- "Deck the Halls"
- "O Holy Night"
- "Jingle Bells"

(PC-SIG Disk# 1211)

Special Requirements: *None.*

Author Registration: *None.*

■ Christmas Concert Volume 2

This is the second of Nancy Moran's outstanding 20-minute, self-running Christmas concerts. In Volume Two, Ms. Moran explores Handel's Hallelujah Chorus and shares little-known carols such as Buxtehude's "A Christmas Canon" and the French "Pat-A-Pan." The carols can be played one at a time or as a concert.

Other selections are:

- "We Wish You A Merry Christmas"
- "It Came Upon a Midnight Clear"
- "We Three Kings of Orient Are"
- "Here We Come A-Caroling"
- "Bring A Torch, Jeanette Isabella"
- "Rudolph the Red-Nosed Reindeer"
- "I Saw Three Ships"
- "La March des Rois"
- "What Child Is This?"

(PC-SIG Disk# 1212)

Special Requirements: *None.*

Author Registration: *None.*

■ Composer

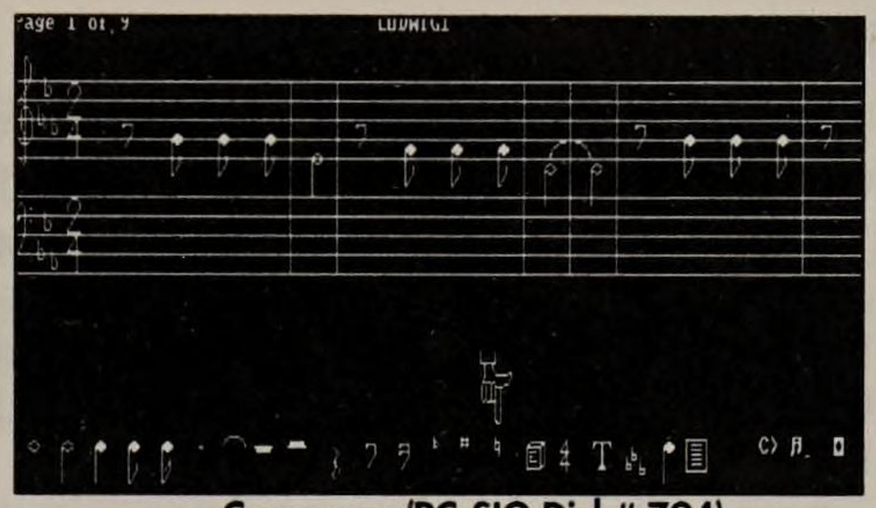
OK, Schroeder — I mean Beethoven — here's a program for you. COMPOSER is a simple music editor that lets you create music and then integrate your creation into a batch file or a program written in Turbo Pascal. A visual display of a piano keyboard lets you play and "record" your music from the computer keys. COMPOSER is a great way to bring musical life to programs you have written. It has a three-octave range and requires some knowledge of music terminology to create original music. Eleven prewritten songs come with the program.

Although it lets Turbo Pascal access the songs, it does not put the files into source code. By calling the file TRBOTUNE.SYS in your Pascal program, you can access your songs.

(PC-SIG Disk# 722)

Special Requirements: *CGA.*

Author Registration: *None.*



Composer (PC-SIG Disk# 794)

■ Composer

If you're like most people, you've always had the urge to create music, but for some reason you never picked up that first instrument and really learned how to play it. COMPOSER makes your computer that first instrument.

COMPOSER is a graphics-based music editor that lets you compose, edit, play, save, and print single-voice music on your PC. Since COMPOSER is a graphics-based editor, you can actually see the notes that make up your music. You do not have to work with a confusing mixture of letters and numbers. Once your music looks correct on the screen and sounds correct, you can print your music with any dot matrix printer.

COMPOSER is easy to use and very flexible. If you have a PCjr, or compatible three-voice machine, COMPOSER can also create music files that can be combined later to make three-part sound. This lets you create harmony and chords.

COMPOSER'S editing features make music entry easy. By using COMPOSER'S block insert and delete mode, you can manipulate large sections of music quickly.

(PC-SIG Disk# 794)

Special Requirements: *CGA.*

Author Registration: *$20.00*

User Comments: *"Great program. I like the graphic interface. It is very easy to use." "Lots of fun and easy to use. Everyone I show it to really likes it."*

■ Lap Dulcimer Tuner and Sheet Music Sampler

LAP DULCIMER TUNER AND SHEET MUSIC SAMPLER has five traditional songs arranged for lap dulcimer in DAA tuning, and an electronic tuner with instructions for beginners on how to tune the dulcimer. The five songs are "Amazing Grace," "Boil Them Cabbage Down," "I'll Fly Away," "The Frozen Logger," and "Happy Endings on the Banks of Ohio."

The music screens can be printed with the Shift and PrtScr keys. The dulcimer- tuning program helps beginners learn to tune their instruments with an electronic tuner. Instructions are included in the program, and tones can be repeated if desired.

(PC-SIG Disk# 967)

Special Requirements: *None.*

Author Registration: *$5.00*

■ Music Collection

A diverse collection of musical programs. Play pre-recorded music, compose new songs, enter old favorites and incorporate any or all of them into your BASIC programs.

The two main menus are jukebox and classics. Select from more than a dozen choices of old favorites such as Arkansas Traveler, Baby Elephant Walk, Hungarian Rhapsody, Messiah, a Bach Minuet, and the Nutcracker Suite. Compose something new and different on the keyboard of your PC. Play your choice or include appropriate music and sound effects in your BASIC programs to add interest and fun!

(PC-SIG Disk# 322)

Special Requirements: *None.*

Author Registration: *None.*

User Comments: *"Music Collection moves me to admiration and envy. Wonderful way to demonstrate the computer." "Music to my ears. Contains delightful and enjoyable selections." "Good variety. Music nicely arranged. I like being able to list programs. Fabulous! Would like more."*

■ Music Minder, The

THE MUSIC MINDER is a comprehensive music library management system. Schools, churches, civic organizations, and individuals use it to keep track of music orders, music library inventory, and performances.

Compositions in your music library are posted through the library system with all data concerning the composition available for editing. The library is displayed and various reports can be run against the database. Performance data can be posted and maintained, allowing the music director to view the performance history (three previous performances) for any composition. THE MUSIC MINDER also supports multiple music libraries.

Some of the features provided are: a music library filing system, complete ordering information system, individual 3"x5" library card printing, performance tracking, establishment of multiple libraries, performance history reports, and other reports based on composer, keywords, and title. Browse the library by keyword, composer, or title. This program is fully menu-driven and easy to operate.

(PC-SIG Disk# 1472)

Special Requirements: *512K RAM, 2 disk drives or hard disk, and CGA.*

Author Registration: *$20.00*

■ PC-MUSICIAN

PC-MUSICIAN is a tool for the beginning composer. It lets you enter musical notation and then plays it back. It needs no extra keyboards or instruments attached, as it uses only the keypad.

Playback is on the one voice of the computer. This program is more for the aspiring musician than for the technically-proficient musician/computer operator.

(PC-SIG Disk# 127)

Special Requirements: *None.*

Author Registration: *$20.00*

■ PIANO

Play your PC like a piano. See a representation of the keyboard of your computer on the screen of your PC. The musical notes are displayed and when you press that key, the note sounds. Although you cannot play chords, since the PC only plays one note at a time, you can change the pitch and duration of the notes. Do you take requests?

(PC-SIG Disk# 322)

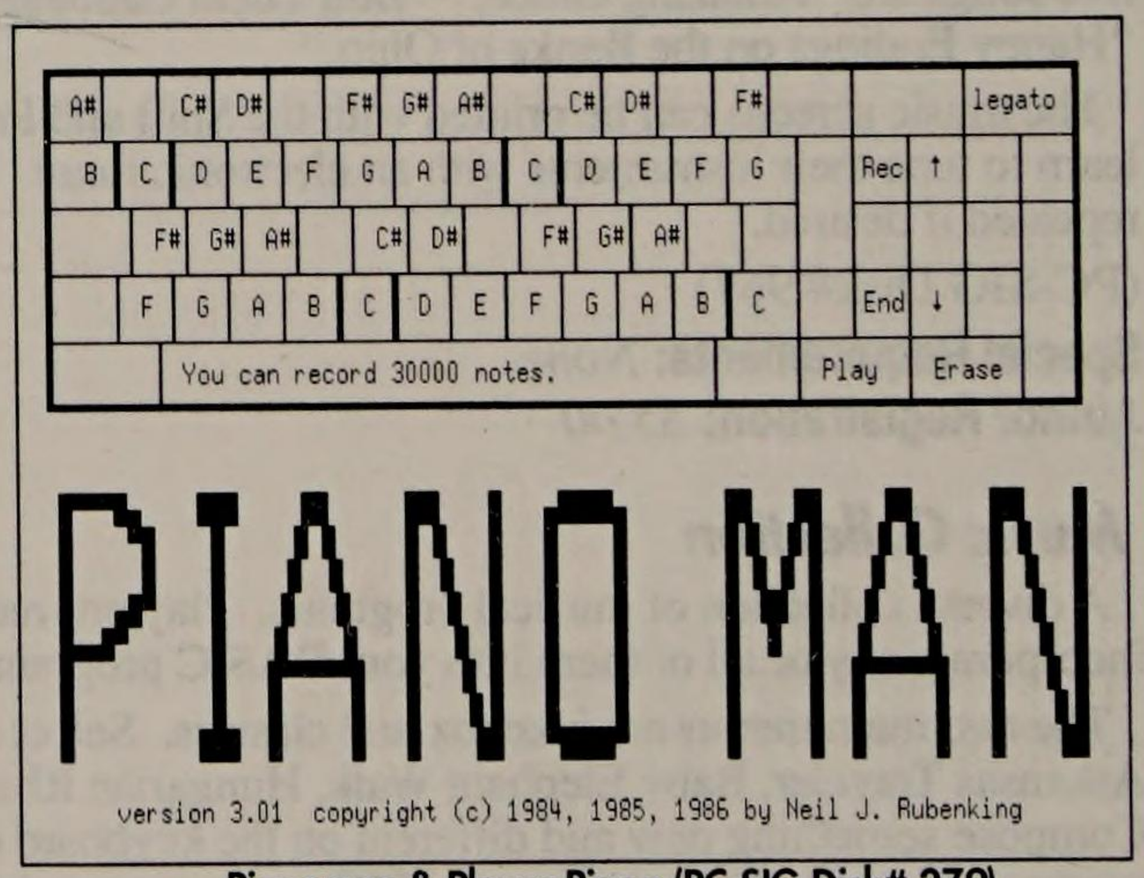
Special Requirements: *A version of BASIC.*

Author Registration: *None.*

■ Pianoman & Player Piano

Play your computer keyboard as if it were an electronic piano! More than just a simple note-playing routine, PIANOMAN can help you shape a true musical composition.

Playing music is simple. You'll see a picture of the keyboard on your monitor, with the notes written on the keytops. When you press a key, it lights up on the screen and sounds a tone for as long as the key is held down. You can record and edit music, insert and delete notes, adjust pitch and length, make global changes, and save/retrieve files. The maximum number of notes PIANOMAN can keep in memory is 63,488, if you have over 450K of RAM. Three octaves are available at a time and you can shift those octaves up or down.



Pianoman & Player Piano (PC-SIG Disk# 279)

Create lovely music with this versatile composition tool. Record your songs on disk and send music to your friends. They'll smile when you sit down at the computer!

(PC-SIG Disk# 279)

Special Requirements: *None.*
Author Registration: *$25.00*
➤***ASP member.***

User Comments: *"Pianoman is pleasant to use. Even though I'm not a musician, I manage to get a tune put together." "My 11-year-old really enjoyed this." "A very versatile piano program. A lot of fun. Well thought out." "Pianoman is cleverly written, easy, a lot of fun, can create music for other applications."*

■ *Pianoman Does Beethoven*

PIANOMAN DOES BEETHOVEN is an exquisite translation of Ludwig van Beethoven's artistry for the IBM-PC and compatibles. Five compositions, approximately 23 minutes of music, have been adapted by Nancy Moran with finesse and accuracy. The music files were created using Pianoman and the author has included a detailed description of the advanced techniques she used in their transcription.

Selections include: Moonlight Sonata, Minuet in G-Major, Six Variations on a Duet from the Opera La Molinara, Seven Variations on the National Song, and the Sonata Pathetique.

(PC-SIG Disk# 1396)

Special Requirements: *None.*
Author Registration: *$7.50 brings a disk of additional music.*
➤***ASP member.***

■ *Pianoman Goes Bach*

PIANOMAN GOES BACH contains 12 musical selections by Johann Sebastian Bach: the first three two- and three-part inventions, Well-Tempered Clavier (both preludes and fugues), and three suite movements. All were transcribed and adapted for IBM-compatible PC using Pianoman (PC-SIG Disk #279). The main menu offers the user many options in playing the 12 works and is easy to use, even for beginners.

The files are run from a menu as singles or in various sequences and provide approximately 30 minutes of Bach's work. Each selection is a rich piece of music, even through a PC speaker.

(PC-SIG Disk# 1395)

Special Requirements: *None.*
Author Registration: *$7.50*
➤***ASP member.***

■ *Pianoman Goes Baroque*

Baroque music lovers will treasure this latest Pianoman artistry by Nancy Moran. Ten 18th-Century compositions by Scarlatti, Telemann, Wagenseil and Karl Philipp Emanuel Bach are transcribed and adapted for the PC. Under Ms. Moran's hand, these 32 minutes of delight prove the ordinary PC to be a musical instrument of great range and diversity.

Ms. Moran, who also authored Pianoman Does Beethoven, Pianoman Goes Bach, and Christmas Concerts, takes Pianoman to soaringly complex heights, while seeming to give the PC a new voice.

(PC-SIG Disk# 1397)

Special Requirements: *None.*
Author Registration: *$7.50*
➤***ASP member.***

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Music Collection Compose something new on the keyboard of your PC or play pre-recorded music. Include music and sound effects in your BASIC programs. See *Music*.
(PC-SIG Disk# 322)

Music Minder, The A music library management system for schools, churches, civic organizations, and individuals who need to organize music and musical performances. See *Music*.
(PC-SIG Disk# 1472)

Music Trivia See *Trivia*.

Mutant Invasion It is the year 2000, and your city is now under a dome because of a nuclear explosion. Mutants from outside the dome want to get in; it is your job to keep them out. A text adventure game. See "Mix It Up" listed under *Games, Adventure and Text.*

MVP-FORTH Mountain View Press Forth language, for advanced Forth programmers at college or graduate level. See *Programming, Forth.*
(PC-SIG Disk# 31)

Mymenu MYMENU creates a start-up menu, written in BASIC, for your hard disk. See *Menu Programs.*
(PC-SIG Disk# 936)

Mystic Pascal An integrated programming environment for Pascal programmers. See *Programming, Pascal.*
(PC-SIG Disk# 965)

N

NameGram A collection of strange, sometimes pointless, but always amusing pursuits. Create anagrams, turn your phone number into a word, turn a text file into gibberish! See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk# 477)

NamePal Record all your important names and addresses and print them out in pocket-sized name/address/telephone book. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 706)

Names NAMES makes unusual names for use by writers, game players, or just for fun! See *Writing and Composition Aids.*
(PC-SIG Disk# 1102)

Names, Baby's See *Entertainment, General.*

National Bureau of Standards Life-Cycle Cost A comprehensive energy cost-analysis of buildings and building systems. Examine and compare alternative designs. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 983)

Navigation See *Flying and Navigation.*

Navigator, The A hard disk menu program that gives you simple, easy access to your programs. Also features password protection and a timed screen blanker. See *Menu Programs.*
(PC-SIG Disk# 1042)

Navigator, The A hard disk menu program that allows simple, easy access to your programs. Also features password protection and a timed screen blanker. See *Menu Programs.*
(PC-SIG Disk# 1279)

NCAAPool Helps you manage your local NCAA basketball pool. Performs many tracking and reporting functions that previously took hours to do by hand. See *Gambling*.
(PC-SIG Disk# 1387)

NCRisk A computer version of Risk. You and your army are pitted against the armies of up to three other players in a worldwide conflict. See *Games, Board and Dice*.
(PC-SIG Disk# 1322)

NDOSedit An invaluable time saver that remembers a stack of previously issued commands. Allows scrolling through and editing of these commands. See "Best Utilities" listed under *File Management Utilities*.

Neat Text Formatter NEAT reads in a standard ASCII file format and writes a "formatted" file in output. Many options, controls, and fonts available. See *Word Processor and Text Utilities*.
(PC-SIG Disk# 950)

Nebula You are in a spaceship exploring the Orion Nebula for NASA. Your mission is to explore the three closest planets to your spaceship and collect one animal, one vegetable, and one mineral. See *Games, Adventure and Text*.
(PC-SIG Disk# 967)

NETHACK: An Adventure Game A HUGE Dungeons & Dragons adventure of 20-plus levels with more than 150 rooms and endless corridors to roam — if you live long enough! Simple graphics, but tension and excitement galore! See *Games, Adventure and Text*.
(PC-SIG Disk# 1000)

Network A computer network consists of two or more interconnected computer systems, terminals and/or communication facilities. Computer networks can be either local or remote. A local-area network (LAN) connects several computers within several hundred feet of each other. LAN users can share databases, software, printers, hard disks, and other peripherals. Remote networks which use common telephone lines for communication are called dial-ups. Some remote networks use radio, microwave or infrared waves for communications.

Nevada Poker A simple-to-play, one-player poker game in which you may discard one to five unwanted cards of the cards dealt to you. See "Mix It Up" listed under *Games, Adventure and Text*.

New Testament See *Bible Study*.

New York Edit A programmer's text editor with macro language. Features include EGA support, virtual memory, search and replace, and expanded memory support. See *Word Processors, Text Editors, and Outliners*.
(PC-SIG Disk# 829)

New York Word A powerful word processor featuring windows, footnotes, macros, context search, index, table of contents generators, and more. See *Word Processors, Text Editors, and Outliners*.
(PC-SIG Disk# 528)

NewBase II A menu-driven database manager for mailing lists, name and address lists, sales reports, expense accounts, and budgets. See *Databases*.
(PC-SIG Disk# 233)

NEWKEY Redefine your keyboard with this keyboard macro utility. Assign a complex series of keystrokes to a single key. Work more accurately and quickly. See *Utilities, Macro Programs*.
(PC-SIG Disk# 181)

Newsbase Keep track of the contents of each issue of a periodical. Useful for publishers as well as researchers and broadcasters. See *Databases*.
(PC-SIG Disk# 715)

Nifty NIFTY helps new and casual PC users create personalized menus to run programs, copy, or read files, and do other computer tasks at the touch of a key. It even offers password protection to submenus. See *Menu Programs*.
(PC-SIG Disk# 1225)

Nirvana An interactive fantasy/adventure game. More than 1000 words of vocabulary promises to make this an interesting one! See *Games, Adventure and Text*.
(PC-SIG Disk# 1281)

Notepads See *Desktop Organizers*.

Notes and Sources ON DISPLAY This extension for Genealogy ON DISPLAY (Disk #90) aids the search for your past by allowing you to make and keep notes on each new discovery. See *Genealogy*.
(PC-SIG Disk# 594)

Nuclear Magnetic Resonance Useful in many advanced chemistry applications to analyze nuclear magnetic resonance results. See *Chemistry and Physics*.
(PC-SIG Disk# 590)

Nukewar Pick a country to fight for and disintegrate your enemy's country with nuclear warheads. The ICBM's are most effective. See "Games Galore" listed under *Games, Arcade*.

Null Modems See *Communication Programs*.

Number Magic NUMBER MAGIC helps teach preschool children number recognition and counting skills. See *Children's Programs (ages 2-10)*.
(PC-SIG Disk# 1214)

Numerology See *Astrology and Fortune Telling*.

Nutrition See *Health Management*.

Nutritionist, The This is a diet manager with particular attention to natural foodstuffs. Record up to 270 recipes and analyze for nutritional impact. Calorie counter and menu planner. See *Health Management*.
(PC-SIG Disk# 1148)

O

OBLITER8 A super-security utility which will delete a file so that it is unrecoverable. See "Program Grab Bag" listed under *Practical Jokes*.

Okidata Printers See *Printer Managers or Printer Utilities*.

Old Testament See *Bible Study*.

Omega-Link OMEGA-LINK is a communications program for the modem, which can be configured to suit your needs. Define the communication parameters, file names, modem and printer, buffer sizes, windows, and colors. See *Communication Programs*.
(PC-SIG Disk# 843)

On-line system A system which directly connects terminals with a computer.

ON-Side Spreadsheets too fat to fit on the page? Now you can print spreadsheets a mile wide! Use with almost any program that sends printed output to disk. See *Printing, Sideways*.
(PC-SIG Disk# 1184)

One-To-One A unique telecommunications program designed for interactive use between two people. "Chat" while transferring files. See *Communication Programs*.
(PC-SIG Disk# 1031)

Optics OPTICS gets optical parameters from the sophisticated lens user and returns a myriad of technical information about reflecting lenses or telescopes. See *Astronomy and Space Exploration*.
(PC-SIG Disk# 538)

Optimization, Hard Disk See *Hard Drive Utilities*.

Opus 1 Brain Teasers Trivia Game A trivia game for up to four people, with 25 categories to choose from. See *Trivia*.
(PC-SIG Disk# 997)

Oracle A duet of fortune-telling protocols. TAROT deals cards and interprets the layout and cards. ICHING performs both coin-toss and yarrow-stick divination, leaving interpretation to the user. See *Astrology and Fortune Telling*.
(PC-SIG Disk# 615)

Orbits, Planets See *Astronomy and Space Exploration*.

Organizational Charts See *Paint and Drawing Programs*.

Origami Learn the ancient Japanese art of paper-folding. Instructions for a balloon, box, rabbit, duck, puppy and many more. See *Entertainment, General*.
(PC-SIG Disk# 408)

OS/2 An operating system for IBM AT and PS/2 computers to replace DOS. This new operating system permits multitasking and use of larger amounts of memory.

Outliners See *Word Processors, Text Editors, and Outliners.*

Output Device Hardware, such as the screen or printer, which can receive output generated by the CPU as a result of a software application.

Overhead Transparencies See *Presentation Graphics (Slides).*

P

P-Cem P-CEM is a program that displays the current directory and allows you to execute several DOS commands at the touch of a key. See *DOS Shells*.
(PC-SIG Disk# 1464)

P-Robots A game that helps teach programming in Pascal. You design and program a "robot" that can triumph over robots designed and programmed by others in a real-time battle of wits and flying missiles. See *Programming, Pascal.*
(PC-SIG Disk# 1386)

P4UP P4UP compresses 4 normal page images onto one page (four quadrants), using its own fonts and an HP LaserJet II printer. It is ideal for shrinking large documents or source code files. See *Printer Utilities, Laser.*
(PC-SIG Disk# 1460)

P90 Print your files sideways. Great for spreadsheets. See "Baker's Dozen" listed under *File Management Utilities.*

Packdisk Utilities A handy collection of file and disk management utilities: eliminate file fragments, transfer or delete whole subdirectories, and more! See *Hard Drive Utilities.*
(PC-SIG Disk# 610)

Packgal Another good clone of Pac Man. See "Game Series 21" listed under *Games, Arcade.*

Packgal Another good clone of Pac Man. See "Patrick's Best Games" listed under *Games, Arcade.*

Packman A great simulation of the arcade game that has the guy with the big mouth that loves to eat dots. See "Brian's Games" listed under *Games, Arcade.*

Pagemaker, Utilities See *Word Processor and Text Utilities.*

Paint and Drawing Programs

■ Drawplus

A Graphics/Drawing program written especially for the PC and PCjr.

Pull-down menus and a joystick control the various functions, which include: Line, Circle, Paint, View, Cut-and-Paste/Delete, Fatbrush, and Airbrush, with varying color-width-density. Source code is included.

(PC-SIG Disk# 633)

Special Requirements: *CGA, two floppy drives, and a version of BASIC.*
Author Registration: *None.*

■ Fantasy

Create your own animated art and interesting designs with FANTASY.

Paint flowing, colorful pictures or designs as you move the mouse or press the cursor keys. As the images are created, the art is saved to a disk file to replay on the screen whenever you want.

(PC-SIG Disk# 1305)

Special Requirements: *CGA. Mouse optional.*
Author Registration: *$20.00*

■ Finger Painting Program

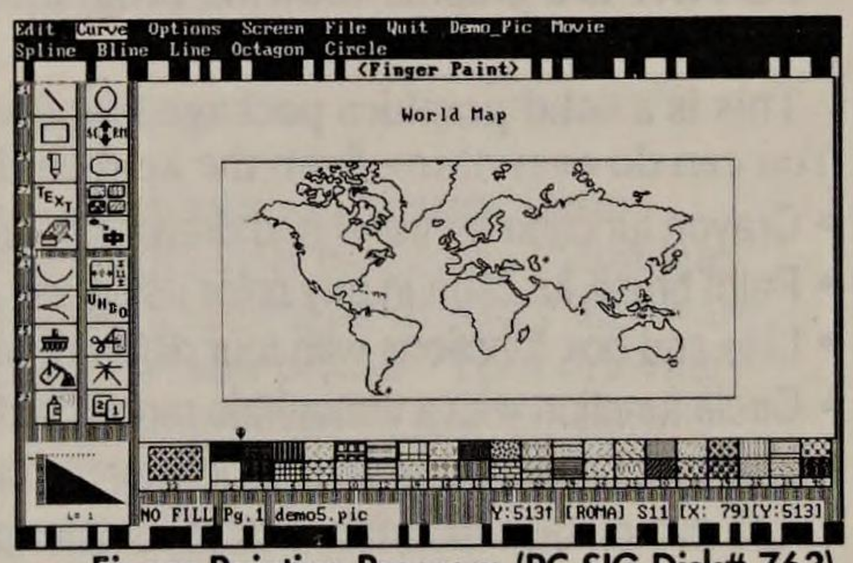
FINGER PAINT, reminiscent of some programs for the Macintosh, is an easy-to-use, straightforward paint program for either home or office use.

FINGER PAINT has most of the bells and whistles you would find in a print program, such as variable drawing functions (dots, lines, rectangles, circle, arcs, etc.). But it also has a few that are rare in a program of this price — animation, variable text fonts, two-page editing, and more. One of its major advantages is its Hercules graphics compatibility. This means it can run on many computers.

The non-registered copy of FINGER PAINT works only with the HP LaserJet printer and produces a 150-dot-per-inch output.

(PC-SIG Disk# 763)

Special Requirements: *320K RAM and CGA, EGA, or Hercules graphics.*
Author Registration: *$20.00*



Finger Painting Program (PC-SIG Disk# 763)

■ FloDraw

FLODRAW is a graphics editor that produces black-and-white full-page diagrams. It is designed to handle symbols quickly and easily and is ideal for documentation, such as flowcharts, organization charts, system diagrams, and other symbols-oriented materials. It combines text and graphics and is equipped with a basic graphics editor for lines and circles, plus pixel editing.

FLODRAW has symbol libraries for flowcharts, HIPO charts, and electric diagrams. Design your own symbols, save them, and combine them into new libraries, or add them to an existing library.

(PC-SIG Disk#'s 912, 913)

Special Requirements: *320K RAM, CGA, and a printer.*
Author Registration: *$25.00*
➤ ***ASP member.***
User Comments: *"Takes some studying to be able to use it, but the results are outstanding." "I've used many commercial flow chart programs and found FLODRAW the friendliest." "Works great. Really helps with programming complicated systems."*

■ MacPaste

Read, edit, save, and print pictures orignally drawn with MacPaint on the Apple Macintosh. MACPASTE lets you do this on your IBM-PC.

It has many features such as: cut-and-truncate, line-drawing, paint, scroll, magnify, and much more. Printer parameters can be set from MACPASTE for printing ReadMac pictures. MACSHOW shows sequential ReadMac pictures on the same drive and MANYMAC combines four ReadMac pictures into one. MACBLANK creates a blank ReadMac picture, which can then be edited with MACPASTE. When printed, a ReadMac picture is surprisingly realistic and detailed in nature.

(PC-SIG Disk# 1001)

Special Requirements: *CGA.*

Author Registration: *Any amount.*

■ MonoDraw

MONODRAW provides full-screen, 740x348 pixel monochrome graphics uncluttered by on-screen menus. All the features commonly available in "paint" programs are included. Full-screen resolution is maintained by keeping the intuitive menus in a separate window that is readily and instantly accessible. Full documentation is provided.

(PC-SIG Disk# 1092)

Special Requirements: *Hercules graphics and a Epson-compatible printer.*

Author Registration: *None.*

■ PC-Art

PC-ART is a graphic-drawing program that lets you create color pictures and designs using the standard color graphics adapter on the IBM-PC.

This is a solid graphics package that does not depend upon the use of a mouse, light pen, koala pad, or joystick. You can do everything from the keyboard. The following features are available to you:

- Crayon function for free-hand drawing in any color
- Paint brush function in any color using any one of 15 patterns
- Line and box functions with four different line patterns
- Circle function with a concentric repeat feature
- Text function in two fonts in any color and in 10 character sizes
- Retrieve or save an entire picture for later processing
- Snapshot function to take a picture of the screen and store it
- Image library to store and later retrieve drawn figures
- Easy-to-use window panels to select functions, colors, etc.

(PC-SIG Disk# 629)

Special Requirements: *CGA.*

Author Registration: *$25.00*

■ PC-Key Draw

PC-KEY DRAW combines the features of CAD, paint, slide show, and desktop publishing programs into one powerful and flexible drawing package.

Create a wide variety of graphics such as:

- Mechanical design
- Country quilt design
- Landscape architecture
- Graphics game development
- Business presentations
- Graphic art

Fast and easy to use, with or without a mouse.

Drawing features include:

- Lines — parallel, spoke

- Circles — arcs, pie slices, ellipse
- Curves — sine, rose, spiral
- Others — dots, vectors, polygon, fillets, and arrows

Paint features include:

- Spray paint
- Shading
- 29 colors
- Modify color
- 64 fill patterns
- Fade/shift/strip colors
- Reverse video

Twenty-six text fonts are included in the registered version, four fonts in the shareware copy, with the ability to create your own. Text can be placed at the cursor location, justified, moved, rotated, and imported from an ASCII file. Screen modification includes all standard options and a few unusual ones.

Additional features include object area calculation, animation, templates, banner/poster printing, macro language, and powerful slide-show system.

The newest version of PC-KEY-DRAW also includes HYPERDRAW. HYPERDRAW provides a means to link related screens of information together in a database structure that is ideal for a variety of tasks such as teaching aids, interactive slide shows, image organization, drawing detailing, project scheduling, cataloging, process diagraming, and much more. There is also a full interactive tutorial that uses the linked screens of HYPERDRAW to teach the basic drawing commands of PC-KEY DRAW.

(PC-SIG Disk#'s 344, 345, 1032, 1124)

Special Requirements: *Two floppy drives and CGA.*
Author Registration: *$100.00*

■ PictureThis

With PICTURETHIS, you can quickly and easily prepare professional-looking drawings for printing on PostScript-compatible laser printers and imagesetters. You can do them either freehand or by tracing "template" screens captured with a companion program, Capturethis. PICTURETHIS doesn't need a lot of fancy hardware — just an IBM-PC, XT, AT, or compatible. You don't even need direct access to a laser printer. Your drawing files can be sent by mail or modem to a laser typesetting service bureau for overnight return of low-cost prints with 300, 1270, or even 2540 dots-per-inch resolution. You can print PICTURETHIS drawings at lower resolution on some dot matrix printers, using the graphics screen dump program supplied with DOS.

You don't have to know how to program in the PostScript page description language to use PICTURETHIS. You view a screen representation of your drawing as you prepare it, so additions and alterations can be made easily.

(PC-SIG Disk#'s 1130, 1474)

Special Requirements: *320K RAM, CGA, and PostScript printer or compatible.*
Author Registration: *$25.00*

■ Printer Art

This PRINTER ART package is a collection of ASCII text files, that, when sent to your printer, create many wondrous sights such as a clown, Schroeder of Charlie Brown fame, the Enterprise, and more. Some of these sights may not be suitable for young eyes to view, so please use your own discretion.

(PC-SIG Disk# 154)

Special Requirements: *A version of BASIC, a printer, CGA, and 384K RAM.*
Author Registration: *None.*

File Descriptions:

UN-PQC	BAT	Batch command file to unsqueeze .PQC pictures. To execute, type AUN-PQC [destination-drive:].
ALFRED	PQC	The MAD mascot himself.
BARDOT	PQC	Female Portrait.
CLOWN	PQC	Clown.
DRAGON	IMG	This, READMAC.IMG and SAMPLE.SHO, together are a
READMAC	IMG	sample slide-show for REPP310.

ENTEP	PQC	Enterprise (from Star Trek).
KIRK	PQC	The captain himself.
LORETTA	PQC	Female portrait.
MICKEY	PQC	Famous cartoon character.
MONA	PQC	Da Vinci's masterpiece.
MOTHER	PQC	Mother & child.
NUSQ	COM	File unsqueeze utility.
PANTHER	PQC	Pink Panther.
PHANTOM	PQC	McDonnell Douglas F-4E Phantom II.
REPP310	DOC	Information about REPP310.
REPP310	EXE	Translates .PIC and .NUD files into CGA graphics pictures!
REPPHELP	DAT	Help File for REPP310.
SAMPLE	SHO	Slideshow file for REPP310.
SANTA4	PQC	Santa and 4 reindeer; ready to print or view with REPP.
SANTA8	PQC	Santa and 8 reindeer; ready to print.
SCHROEDR	PQC	Schroeder (from Peanuts).
SHUTTL3D	BAS	Shows space shuttle from any 3 angles.
SHUTTLE	PQC	Challenger space shuttle.
SMURF	PQC	A little blue fellow, ready to print.
TIGER	PQC	Well-done tiger.
TIGER	MAC	Mac file.
TWEETY	PQC	Cat Food.
UTILHELP	DAT	Data file.
———	—	Material after this point is not for kiddies
UN-NQD	BAT	Batch command file to unsqeeze .NQD pictures.
????????	NQD	Nudes.

▼▼▼

Paint Programs See *Paint and Drawing Programs.*

PAL An appointment book/calendar. Sorted lists of to-do items and appointments help you plan your time most efficiently. See *Schedulers, Calendars, To Do Lists, and Ticklers.*

(PC-SIG Disk# 1259)

Pango Try to keep your cool while you're being chased by the eaters. Travel through a maze and when the right moment hits, kick the eater into oblivion. See "Arcade Series 3" listed under *Games, Arcade.*

Parents' Home Companion: Managing Colic Assistance and advice to parents of colicky babies, in question-and-answer format. See *Health Management.*

(PC-SIG Disk# 1100)

Parity bit In data storage and communication, each byte has a bit which is used to check the data for accuracy.

Particle Simulation Simulation of the orbits of celestial bodies, including a three-star system, and small particles. See *Astronomy and Space Exploration.*
(PC-SIG Disk# 1070)

Pascal A programming language developed by Niklaus Wirth in 1968. Using a structured syntax, Pascal forces a program to be organized. It was named after the French mathematician, Blaise Pascal. For programs see *Programming, Pascal.*

Pascal Programming See *Programming, Pascal.*

Pascal Turbo Enhancement Toolkit A collection of low-level procedures, including routines for video, printer, disk, keyboard, and more that are not included in the standard library. See *Programming, Pascal.*
(PC-SIG Disk# 1247)

PASCAL TUTOR A thorough tutorial for the beginning programmer in Borland's Turbo Pascal compilers 3.0, 4.0, and 5.0. Fundamental concepts of Pascal programming are addressed crisply and concisely. See *Programming, Pascal.*
(PC-SIG Disk#'s 579, 580)

Passing Passages and GS-Testit A study aid for the FAA Private Pilot's license examination in a question/answer format. Included is a maze game which reviews the same information. See *Flying and Navigation.*
(PC-SIG Disk#'s 1362, 1363)

Password Keep unwanted users off your system. Protect your computer with a password. See "Hard Disk Utilities" listed under *Hard Drive Utilities.*

Password Protection See *Security — File, Disk, or System.*

Patch PATCH lets you view and modify disk files in memory, or peruse and change the computer's memory as if it were a disk file. See *Utilities, System, or Hardware.*
(PC-SIG Disk# 779)

Path The route through directories and subdirectories to find a file. Also, an MS-DOS command used to tell the operating system where to look for a program if it is in another directory.

Patrick's Best Games Packgal gobbles energy pills, Bugs runs like Centipede, Spacevad is like Space Invaders, Castle is for D&D addicts, and 3-Demon is for pacman action too real to stand. See *Games, Arcade.*
(PC-SIG Disk# 476)

Pay-Time Payroll System PAY-TIME figures out your company payroll and writes the appropriate checks for your employees. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk#'s 963, 1034)

Payroll Systems See *Accounting, G/L, A/P, A/R, Payroll.*

PC Account A personal accounting system and checkbook ledger. Retrieve a year's transactions at tax time. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 941)

PC Education See *DOS and PC Training and Education.*

PC Flight Guide PC FLIGHT GUIDE acts as your personal travel agent by giving you total information on flights and travel plans among 200 North American cities and business centers. See *Flying and Navigation.*
(PC-SIG Disk#'s 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448)

PC GRAPHICS C HP-BASIC tools for graphics programming that overcome shortcomings in the standard Microsoft C library. See *Programming, C.*
(PC-SIG Disk# 1433)

PC Mechanic An integrated preventive maintenance program applicable to any business that practices periodic maintenance and maintains spare parts inventory. See *Auto/Vehicle Management*.
(PC-SIG Disk# 1277)

PC Pontoon The foreign version of Black Jack. Same game, different name. See "International Game Collection" listed under *Games, Arcade*.

PC Pro-Golf Is the snow four feet deep on the local green? Play top-ranking golf courses on your PC, complete with water hazards, sandbunkers, and woods in full color! See *Games, Arcade (Sports)*.
(PC-SIG Disk# 1344)

PC Shift Schedule all of your employees' shifts with this menu-driven system. See *Personnel Management*.
(PC-SIG Disk# 1195)

PC-Agent For the busy real estate agent, a quick system for matching prospects with properties. See *Real Estate and Property Management*.
(PC-SIG Disk# 1405)

PC-Art Use your keyboard to create color pictures. Windows provide access to commands. See *Paint and Drawing Programs*.
(PC-SIG Disk# 629)

PC-Banner A simple, menu-driven banner program that lets you change the style of print from light to dark, and uses the IBM graphics character sets for high-quality banners. See *Banner Makers*.
(PC-SIG Disk# 779)

PC-Bartender Learn to mix 200 drinks with this database of recipes. Searches can be based on name or ingredients. Also non-alcoholic drinks. See *Food and Drink Preparation*.
(PC-SIG Disk# 1213)

PC-Billmaster This is not just another checkbook program. The easy-to-read menus, recurring payment module and unposted item feature make this special! See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 1021)

PC-Books A menu-driven general ledger program designed with the small business in mind. Convert from manual system to computer system with ease. See *Accounting, G/L, A/P, A/R, Payroll*.
(PC-SIG Disk# 901)

PC-CAI A computer language for the design of tutorials, tests and presentations. On-line help enables novices to produce professional-looking results. See *Test and Quiz Preparation*.
(PC-SIG Disk# 1470)

PC-Calc jr A spreadsheet with many capabilities, adapted especially for the PCjr. Perfect for small to mid-size applications. See *PCjr*.
(PC-SIG Disk# 625)

PC-Calc+ A spreadsheet with many capabilities such as graphics, coprocessor support, split-screen editing and processing, and a context-sensitive help function. See *Spreadsheets*.
(PC-SIG Disk#'s 199, 1016, 1017)

PC-Calib A handy aid in the task of calibrating or verifying instrument readings. Chemists, researchers, and engineers will appreciate this program. See *Chemistry and Physics*.
(PC-SIG Disk# 1078)

PC-CHART "Stock-broker-on-a-disk" helps you know when to buy or sell stocks and commodities. See *Investment Management*.
(PC-SIG Disk# 1436)

PC-Check A menu-driven checkbook manager and personal general ledger with printout and check-writing capabilities. See *Accounting, Checkbook Management — Business.*
(PC-SIG Disk# 275)

PC-CHESS Play chess against your computer at varying levels of difficulty. Save up to 26 games in progress. See *Games, Board and Dice.*
(PC-SIG Disk# 120)

PC-Cryp2 Protect your valuable data from the prying eyes of others. PC-CRYP2 will encrypt and decrypt your files with the password YOU assign. See *Security — File, Disk, or System.*
(PC-SIG Disk# 709)

PC-Dashboard A menu system that not only organizes and eases your access but, thanks to the security features, controls the access of everyone else. See *Menu Programs.*
(PC-SIG Disk# 1165)

PC-Demo Graphics Presentation Package Create a slide show, a product demonstration, or a tutorial with this graphics program. See *Presentation Graphics (Slides).*
(PC-SIG Disk# 914)

PC-DeskTeam Easy-to-use desktop productivity tools that pop-up when needed: appointment calendar with alarm, phone book with Hayes-compatible auto-dialer, printer settings, and a calculator. See *Desktop Organizers.*
(PC-SIG Disk# 405)

PC-Dial A no-frills communications program with text editor, on-line help, auto-dial and redial, DOS access, auto-logon and much more. LONG DESCRIPTION See *Communication Programs.*
(PC-SIG Disk# 129)

PC-Dial jr A modem communications program just for the PCjr. See *PCjr.*
(PC-SIG Disk# 626)

PC-Disk Label Prints nice-looking, easy-to-read labels to identify your floppies. See *Disk Catalogers and Disk Labelers.*
(PC-SIG Disk# 1192)

PC-DOS HELP Can't remember DOS commands? Just type HELP and choose the command you need. See *DOS and PC Training and Education.*
(PC-SIG Disk# 254)

PC-Draft II A drafting and paint program for producing clip-art for desktop publishing and capturing clip-art produced by other programs for editing and enhancement. See *CAD (Computer Aided Design) and Designing.*
(PC-SIG Disk# 1060)

PC-Estimator Estimates building costs for projects of all sizes and kinds, from skyscrapers to kitchen remodeling. See *Quotes, Bids, and Estimating.*
(PC-SIG Disk#'s 1383, 1384)

PC-FASTYPE Gain skill and speed on the keyboard with this typing tutorial! See *Typing, Education.*
(PC-SIG Disk# 320)

PC-File III jr A popular database filing system specifically adapted to the IBM-PCjr. Inexpensive and useful. See *PCjr.*
(PC-SIG Disk# 624)

PC-File+ An excellent database with on-line help, custom entry screens, mail merge, extensive calculation ability, and a powerful report writer program! See *Databases.*
(PC-SIG Disk#'s 5, 730, 1015)

PC-File:dB This menu-driven database allows direct access to dBase III+ files without dBase III+. It also supports features such as macros, 10 levels of sort, LAN support, and extensive graphics. See *Databases*.
(PC-SIG Disk#'s 1236, 1237, 1238)

PC-Flow Manage your personal/household budget with an emphasis on your daily cash-flow. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 957)

PC-FOIL Need to create striking overhead transparencies and attractive documents? Large and bold print word processor with graphics capabilities. See *Presentation Graphics (Slides)*.
(PC-SIG Disk# 347)

PC-Foto Prints just the right-sized labels to identify your collection of slides and prints. See *Photography*.
(PC-SIG Disk# 1040)

PC-General Ledger Keep track of your financial life with this general ledger system. It maintains an audit trail for all transactions. See *Accounting, G/L, A/P, A/R, Payroll*.
(PC-SIG Disk# 237)

PC-Golf Measures and analyzes your golf performance to find the problem areas you need to work on. See *Sports Management*.
(PC-SIG Disk# 262)

PC-Ham For amateur radio enthusiasts: antenna positioning, OSCAR tracking, and contact logs. See *Ham Radio*.
(PC-SIG Disk# 562)

PC-Key Draw A powerful combination of a CAD system and a painting program to create graphics. Engineers, architects, and designers will appreciate this one. Top-rated! See *Paint and Drawing Programs*.
(PC-SIG Disk#'s 344, 345, 1032, 1124)

PC-Kwick Use the memory you have to better advantage with selective memory strategies. Store frequently-read data in RAM memory, with speedier access than mechanical drives. See *Utilities, System or Hardware*.
(PC-SIG Disk# 1037)

PC-Learn Friendly, breezy guide for the first-time user, covering DOS for beginners, batch files, spreadsheets, computer terms, and more! See *DOS and PC Training and Education*.
(PC-SIG Disk# 1399)

PC-Mail PC-MAIL is a menu-driven mailing list and address management program which will print mailing labels, keep track of addresses, and allow you to delete the older ones. See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk#'s 868, 869, 1475)

PC-MASTERCONTROL Simplified menu-maker and file manager gives you total control of your hard disk with point-and-shoot commands. Built-in menu editor; screen saver; move hundreds of files at a time! See *Menu Programs*.
(PC-SIG Disk# 1351)

PC-Money Maintain personal, family, and small business financial and tax records. Included are stock market investment maintenance modules and tax information consolidation formats. See *Accounting, Checkbook Management — Home*.
(PC-SIG Disk# 532)

PC-MUSICIAN For the beginning composer — play music while displaying musical notation. Use the keyboard to enter your own compositions or recreate a favorite. See *Music*.
(PC-SIG Disk# 127)

PC-Othello Play a board game over the telephone line with your modem and a friend. See "Follies" listed under *Games, Arcade*.

PC-Outline Organize and outline ideas and information for developing plans, presentations, etc. Keep it memory-resident and use it when an idea strikes you. See *Word Processors, Text Editors, and Outliners*.
(PC-SIG Disk# 480)

PC-Payroll The complete payroll system for mid-sized companies (40-140 employees). Everything from time records and 401(K) plans to tax computations and paycheck printing. See *Accounting, G/L, A/P, A/R, Payroll*.
(PC-SIG Disk#'s 565, 1019)

PC-Pente A game that has been around since the Stone Ages can now be played on your computer. The object is to get five pieces in a row or capture ten of your opponent's pieces by surrounding them. See "Board Games" listed under *Games, Board and Dice*.

PC-Portfolio A database designed specifically for the analysis of financial data on stocks, bonds, notes, mutual funds, and other securities. See *Investment Management*.
(PC-SIG Disk# 1310)

PC-Postcard Plus Use your dot matrix printer to print and address customized postcards with your business announcements, reminders, and social invitations. Even does double postcards! See *Mail Lists, Address Managers, and Telephone Organizers*.
(PC-SIG Disk# 1361)

PC-Professor Well-liked tutorial for learning beginning BASIC programming. See *Programming, BASIC*.
(PC-SIG Disk# 105)

PC-Project Organize and control complex projects. Project your schedule and assign your resources in a Gantt chart. See *Project Management*.
(PC-SIG Disk#'s 1340, 1341)

PC-Prompt A unique memory-resident DOS help function that will prompt you with the info you need to perform a DOS command. See *DOS and PC Training and Education*.
(PC-SIG Disk# 558)

PC-Quizzer Create your own lessons in almost any subject, including foreign languages, history, science, math, vocabulary, trivia, and word definitions. See *Test and Quiz Preparation*.
(PC-SIG Disk# 1143)

PC-Quizzer PC-QUIZZER is a trivia game with various subjects from television to mathematics, sports to history, and a potluck category where any type of question can pop up. See *Trivia*.
(PC-SIG Disk# 1449)

PC-SIG's CookBook Volume I A special collection of favorite and famous recipes. Good for the holidays and friendly get-togethers. See *Food and Drink Preparation*.
(PC-SIG Disk# 1215)

PC-Soft-E A small business checkbook manager to help with bank statement reconciliation. See *Accounting, Checkbook Management — Business*.
(PC-SIG Disk# 1129)

PC-Stock A menu-driven trend analysis program for graphic representation of various stock performances. Easily updated and modified, you can use this as a tool to aid in buy/sell decision-making. See *Investment Management.*
(PC-SIG Disk# 575)

PC-Style Analyses your writing and recommends ways to improve your communication skills. See *Writing and Composition Aids.*
(PC-SIG Disk# 505)

PC-Talk III One of the earliest telecommunications programs and the first shareware program. Still as useful and includes the BASIC source code, See Programming, BASIC.
(PC-SIG Disk# 16)

PC-Ted Programmers — A text editor written especially for you to enter and edit source code files. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 898)

PC-Tickle Reminds you of everything — maintains past, present, and future schedules, logs completed tasks, tracks your expenses and your calories, and balances your checkbook. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 576)

PC-TOUCH Increase your typing speed and improve your accuracy. PC-TOUCH provides unusual quotations to practice on! See *Typing, Education.*
(PC-SIG Disk# 249)

PC-Type II A flexible wordprocessing program with many nice features, such as on-line help, 100,000-word spell checker, mail merge, and keyboard macros. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk#'s 455, 681, 682)

PC-Write This famous and popular word processor features on-line help, on-screen multiple columns, supports a large selection of printers, spell- checker, block edit and more! See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk#'s 78, 627, 1235)

PC-Write Font Selector FONT SELECTOR enables PC-Write users to select the fonts built into the HP LaserJet, the HP cartridge, and hundreds of commercially available soft fonts! See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1267)

PC-Write Macros PC-Write devotees will enjoy a macro feast with this collection, designed for shareware's most popular wordprocessor. Tutorials are included. Speed up your computing when you work with PC-WRITE. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1457)

PC-Write Pagemaker Import Filter PC-WRITE PAGEMAKER IMPORT FILTER allows PC-Write users to transfer PC-Write documents into a Pagemaker environment while retaining most of the formatting. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1267)

PC/370 Cross Assembler Compile and run IBM 370 Assembly language programs on your IBM-PC, XT, or AT. See *Programming, Assembly.*
(PC-SIG Disk#'s 402, 859, 1352)

PC/Calculator Gives you more powerful DOS commands for speed and ease. Customize your function keys and make common commands easier to use. See *Calculators.*
(PC-SIG Disk# 444)

PCC Personal C Compiler A fast and compact C compiler package with a lot of power. See *Programming, C.*
(PC-SIG Disk# 1337)

PCjr

PCjr An early IBM computer product that was designed and marketed to be one of the first "home" computers. It is a small IBM computer with 128K of RAM, a single disk drive, CGA, a cordless keyboard, and a slot for cartridges which contain programs.

■ AMY'S FIRST PRIMER jr

This is a collection of a half-dozen games designed to teach basic skills to children, ages 3-8. The games stress positive reinforcement and promote a "learning is fun" attitude.

The collection includes a sing-along alphabet, a letter-matching game, an alphabet tutorial, a numbers-counting game, a maze game, and a pattern-matching game.

Repeated suggestions that the parents use the games with their child add a nice reinforcement toward family-based learning. This version is especially designed for the PCjr.

(PC-SIG Disk# 647)

Special Requirements: *BASICA cartidge.*
Author Registration: *$15.00*

■ PC-Calc jr

This is Jim Button's famous spreadsheet program PC-CALC, specifically recommended for the PCjr. Perfect for small to mid-size applications such as financial analysis and simple accounting.

(PC-SIG Disk# 625)

Special Requirements: *None.*
Author Registration: *$48.00*
➤***ASP member.***

■ PC-Dial jr

PC-Dial is a modem communications program from Jim Button, the author of PC-File III, and includes a special program just for the PCjr.

Functions include: speeds up to 9600 Baud, exchange of non-text files with computers that support X-Modem protocol, and auto-redial. You can set up your own filters, alter your communications parameters as needed, build automatic logon sequences, control your display, communicate with computers which use XON/XOFF characters, and more.

(PC-SIG Disk# 626)

Special Requirements: *Modem.*
Author Registration: *$29.00*
➤***ASP member.***

■ PC-File III jr

This is Jim Button's very popular database filing program, specifically recommended for the PCjr. A must-have for anyone needing an inexpensive and useful filing system. Users comment on its ease of use and excellent documentation.

(PC-SIG Disk# 624)

Special Requirements: *Two floppy drives recommended.*
Author Registration: *$49.00*
➤***ASP member.***

■ PCjr Educational Games

This is an excellent collection of games for kids aged 6 through 60 and beyond. There are games to tease and tantalize the intellect, and some that are just plain fun. For anyone with a PCjr, this package of fun really works overtime to exploit the strengths of this computer, its sound, and graphics.

(PC-SIG Disk# 241)

Special Requirements: *None.*

Author Registration: *None.*

File Descriptions:

0	BAS	End program and Goodbye screen.
2	BAS	Alphabetize a word list.
1	BAS	Spelling Bee.
3	BAS	Fun arcade-type bowling game.
4	BAS	A graphics display program.
5	BAS	Maxit, a strategy/numbers game.
6	BAS	Othello, an old standby.
8	BAS	Find-a-Word puzzle (requires printer).
7	BAS	Word Problems game.
10	BAS	Finds your age in days.
9	BAS	Creates a unique maze each time (requires printer).
12	BAS	Black and white version of word matching game.
11	BAS	Word matching game, similar to Concentration.
15	BAS	Word Scramble (1).
14	BAS	Word Scramble Number 1.
13	BAS	Hangman, an old favorite.
MENU	BAS	Menu that allows selection and calls up the games.
GRADE-*	LST	Wordlist for grade 1 through 5 (5 files).
BRIEFLY	BAS	Part of titles used by TITLE.BAS.
AUTOEXEC	BAT	A batch file that helps create a working disk.
ACS	PIC	Picture file — used by *.BAS
20	BAS	Program descriptions — called from menu.
17	BAS	Mazes number 2.
16	BAS	Screen machine, a draw program (requires color graphics).
README	DOC	Documentation by authors.
TITLE2	BAS	Additional titles.
TITLE	BAS	Title page and pointer to other documentation.

User Comments: *"Makes nice use of PCjr graphics. Everybody enjoys this one. Nice mix of different games." "Find-A-Word Is great for helping teachers make up short quizzes."*

■ PCjr Games

Attention — PCjr owners! Feeling lonesome and forgotten? Nothing to play with? Dry those tears and know that we've been looking out for you. These games will ONLY work on the PCjr.

TACTICAL COMBAT engages your skills as a planner/tactician in a combat simulation. Seek your fortune with DUNGEON QUEST, an entertaining Dungeons and Dragons adventure. Still not enough mayhem to suit you? Then how about a nice GLOBAL THERMONUCLEAR WAR?

(PC-SIG Disk# 354)

Special Requirements: *A version of BASIC.*

Author Registration: *None.*

■ PCjr Survival Kit

The PCjr SURVIVAL KIT is a collection of utilities for the PCjr line of computers.

JRTELE is a telecommunications package that rivals the most popular communications software. Also included are: a print spooler, a patch for QuickBASIC, a RAM disk, a text editor, a mouse controller, and various other utilities every PCjr user should have on hand.

Our thanks go to the METRO PCjr Users Group in Bethesda, Maryland, for putting these utilities together.

(PC-SIG Disk# 999)

Special Requirements: *None.*

Author Registration: *$5.00 and up.*

File Descriptions:

CACHEJR	BAS	BASIC program.
COMREST	EXE	Comport program.
COMSWAP	DOC	Comport program documentation.
COMSPEC	COM	Comport program.
INT9JR	COM	QuickBASIC patch.
INT9JR	ASM	Source code for INT9JR.COM.
HUSH	DOC	Documentation for HUSH.COM .
HUSH	COM	Program to quiet error messages.
HELP	HLP	Help file.
COMSWAP	EXE	Comport program.
DOS21	DOC	Documentation for DOS21.
DOS21		System file.
JRCONFIG	DOC	Documentation for JRCONFIG.
INT9SYS	SYS	Device driver for QuickBasic Patch.
INT9SYS	ASM	Source code for INT9SYS.
INT9JR	DOC	Documentation for INT9JR.
JRCONFIG	NRD	Data file.
JRCONFIG	DSK	System file.
JRSPOOL	COM	Print spooler.
JRTELE	COM	Telecommunications program.
JRSPOOL	DOC	Documentation for JRSPOOL.COM.
TSCRIPT	PAS	Source code for TSCRIPT.COM.
TSCRIPT	COM	Text editor.
SETRAM	EXE	RAM disk program.
RAM	SYS	Needed by SETRAM.EXE.
PMM	EXE	POOR MAN'S MOUSE main program.
PMM	DOC	Documentation for the POOR MAN'S MOUSE.
PCJR-NEW	SCR	Data screen file.
PATCHBAS	DOC	Documentation file.
PATCHBAS	BAT	Batch file.
PATCH	TXT	Brief note from the author of PATCH.
PATCH	DOC	Documentation for PATCH.COM.
PATCH	COM	Patch program for the jr.
KEY	BAS	BASIC program.
JRTELE	DOC	Documentation for JRTELE.COM.

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PCjr Educational Games A collection of games for kids from 6 to 60, just for the PCjr! See PCjr.
(PC-SIG Disk# 241)

PCjr Games A collection of games for the PCjr ONLY. Eveything from DND to Tactical Combat to Global Thermonuclear War. See *PCjr.*
(PC-SIG Disk# 354)

PCjr Survival Kit A collection of utilities for the PCjr. A print spooler, a communications package, and a RAM disk are just a few. See *PCjr.*
(PC-SIG Disk# 999)

PCLOAN 4 Designed by a retired bank president, this program will do all the calculations needed to analyze any loan amortized in multiple payments. See *Loan Calculators.*
(PC-SIG Disk# 399)

PDS*BASE Database System A complete hierarchical database system! BASIC source code is included. See *Databases.*
(PC-SIG Disk#'s 396, 1025)

PDS*Quote A well-thought-out bid estimating system for any size business. Intuitive interface allows you to focus on the bid, not on the program producing the bid. See Quotes, Bids, and Estimating.
(PC-SIG Disk# 533)

PDVIM PDVIM is the shareware version of VIM (VIrtual Machine), an interpreter/debugger to simulate and/or allow access to the hardware of an XT or AT in an addressing space independent of the normal hardware. See *Utilities, System or Hardware.*
(PC-SIG Disk# 962)

PenName A random name generator for authors, poets, and just for fun. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1403)

Performance Calculator PERFORMANCE CALCULATOR provides formulas, conversions, and calculators to estimate the performance of a car. See *Auto/Vehicle Management.*
(PC-SIG Disk# 894)

Peripheral Hardware attached to a computer system, such as a printer, hard disk, modem, etc. Anything that complements the CPU as either an input or output device.

Personal Ledger Track and analyze all of your financial transactions. Identify categories and sort according to function and purpose. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 1482)

Personnel Management

■ Employee Management System

The EMPLOYEE MANAGEMENT SYSTEM is a highly accurate personality analysis system designed to reduce employee turnover and improve management/employee communications.

Reducing employee turnover is a great money-saver. Heavy turnover reduces production, induces stress, and increases internal friction. The EMPLOYEE MANAGEMENT SYSTEM is intended to help in several ways:

- Know Your Applicants. It is easy to check educational and technical references. But will the applicant's personality fit the job you are trying to fill? Different personalities do better in different environments. EMS can help you know the basics of the personality you are considering hiring.
- Work Characteristics. Get an accurate analysis of the POSITIVE work characteristics of each employee. By being aware of these strengths, the employer is better able to decide how to assign goals and projects.
- Motivational/demotivational Factors. Learn how to motivate an employee, to make that employee happy, and also how to avoid demotivation.
- Job Personality Characteristics. This defines the work personality requirements for ANY given job — defined by the employer. When the time comes to hire personnel, the right people can be matched to the right job. You can get people whose personalities and work preferences will allow them to ENJOY the work.
- Report History Program. Keep track of all employees and job applicants. When a position opens, applicants can be matched to the job immediately without searching through hundreds of application forms.

EMS describes management and decision-making style, stamina, and personality characteristics. It is intended to improve communication between people and enhance the ability of the personnel manager to interview potential employees, as well as improve current employee relations.
(PC-SIG Disk# 660)

Special Requirements: *None.*
Author Registration: *$85.00*

■ Hire

HIRE is a must for any manager or personnel officer who needs to keep track of applications and resumes. HIRE lets you monitor all the people who apply for specific jobs, grants, or any other positions.

HIRE uses merge files to help you respond professionally in writing to everyone. It writes letters to send to applicants, acknowledging their applications, alerting those who have not sent all support documents, and rejecting those who don't qualify. You can personalize the merge files by including the applicant's personal data, such as title, name, address, etc.

HIRE can handle from 300-500 applicants, and can help you screen them according to your criteria.
(PC-SIG Disk# 1004)
Special Requirements: *A printer and FIND.EXE and SORT.EXE from your DOS disk.*
Author Registration: *$10.00*

■ Management Mentor

MANAGEMENT MENTOR helps you evaluate management skills and fine-tune them. A comprehensive self-assessment inventory, MANAGEMENT MENTOR uses questionnaires to evaluate your strengths and weaknesses in 12 management categories. A separate Emphasis-Selection Process helps decide which questionnaires are most relevant to you. Results can be read on-screen and printed.

For an additional fee, registered users get expert consultation in any of 244 management skill areas.
(PC-SIG Disk# 1156)
Special Requirements: *None.*
Author Registration: *$35.00*

■ Managing People

MANAGING PEOPLE is a set of questionnaires designed to help you assess and improve your management skills. The program is designed as a management course which should be used periodically, not just once. Areas covered are decision making, employee evaluation, communication skills, planning improvement, motivating employees, time management, getting projects done, and other areas. Additional documentation is provided for each area of management. A sample job interview file is included as well.
(PC-SIG Disk# 1316)
Special Requirements: *None.*
Author Registration: *$25.00*

■ PC Shift

PC-SHIFT helps organize your employee shift schedule. PC-SHIFT allows you to divide the jobs by location or category and then lets you describe each job required for each area. The job descriptions consist of the beginning date, the location or department, the job title or description, the minimum and maximum qualification level, and the minimum and maximum security level.

PC-SHIFT then lets you enter a schedule for each job, showing a chart of each hour of the day, divided into 15-minute intervals. Once all the data is entered, you may display or print a report on a 12-hour schedule, a 24-hour schedule, a 24-hour chart, or a report on all the job descriptions.
(PC-SIG Disk# 1195)
Special Requirements: *Printer.*
Author Registration: *$39.95*

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PFM A very easy-to-use visual shell for DOS commands. Makes working with DOS much easier. See "Dos Utilities 16" listed under *File Management Utilities.*

PFROI A stock portfolio management and tax planning package. Handles most investment variations and can provide daily portfolio valuations. See *Investment Management.*
(PC-SIG Disk# 360)

Pamphlet Creates 5-1/2"x 8-1/2" booklets or pamphlets using your HP LaserJet. Perfect for documentation manuals or personalized storybooks for the children. See *Printer Utilities, Laser.*
(PC-SIG Disk# 1222)

Pharmacology See *Reference Materials (books/articles/information/data).*

Phone Caddy A mailing list manager with an impressive list of options, such as coding for selective mailings, full search capability, type sizes, and various card-printing choices. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 1154)

Photo Pack A collection of programs for photographers, intended to improve your picture-taking skills. See *Photography.*
(PC-SIG Disk# 1249)

Photographs, Record Keeping See *Photography.*

Photography

■ Computer Darkroom

For those who develop their own pictures, calculating exposure times that are dependent on many factors can involve tedious (and expensive) guesswork. COMPUTER DARKROOM calculates new settings for you quickly and accurately.

Once you have one acceptable exposure with test prints, this program gives you the proper exposure times for any changes you decide to make in paper speed, contrast, magnification, or filter factors for all black-and-white prints, color prints, or color slides, for f/stop values from f/2 to f/32.

(PC-SIG Disk# 1313)

Special Requirements: *None.*
Author Registration: *$25.00*

■ For Photographers

FOR PHOTOGRAPHERS is a three-level, menu-driven program for the amateur or professional photographer to aid in cataloging photographs. Since the entire program is menu-driven, little experience or training is required to be proficient in its use. Consequently, the manual is rather brief.

The first level, Basic, is recommended for minimal record-keeping. You can store the most basic information about a photo, slide, or negative. But record-keeping is not restricted to these data. For instance, you could (if you painted) store valuable data about your paintings or drawings. The second level, Photographer, extends the information storage capability to include data such as processing and printing, and any other data you might want to save. The third level, Professional, adds client information.

FOR PHOTOGRAPHERS allows you to create, edit, save, search, delete, and update any data files in the system.

(PC-SIG Disk# 1164)

Special Requirements: *Two floppy drives.*
Author Registration: *$59.00*

User Comments: *"Great hobby software. Fills a real need for hobbyists and professionals alike."*

■ PC-Foto

Use PC-FOTO to create labels for your libraries of slides, prints, or any other objects that are classified and described like pictures. Both professional and amateur photographers will appreciate the extensive information that can be included on labels. All labels can have at least an account number, photographer's name, description of content, and location. Up to nine sets of labels can be printed, with four labels per set. Also, a variety of label sizes are possible, so you can use PC-FOTO with a variety of photo products.

(PC-SIG Disk# 1040)

Special Requirements: *Two floppy drives and a printer.*
Author Registration: *$25.00*

User Comments: *"Good concise documentation and on-line help." "Comparable to much more expensive programs."*

■ Photo Pack

PHOTO PACK is a collection of programs for amateur and professional photographers guaranteed to improve your picture-taking skills.

With PHOTO PACK, your PC helps you pick the right filters (called diopter lenses) for closeup photography, calculates your camera's settings for shooting moving objects, determines film image size for printing pictures, figures enlarger head to paper distance for blowing up an image, and calculates proper flash settings and

depth-of-field information.

Impressed? Well, zoom in on this: PHOTO PACK also turns your PC into a darkroom processing timer, a label maker, and a negative/slide database. It also prints model releases!

The TIMER can be programmed to handle up to 16 separate processing steps. These steps may run in a darkroom or in a "lights-on" mode. The darkroom mode uses a black screen background with red digits. You can set tones or "beeps" to help you with developing and printing.

The LABEL MAKER prints return address labels, equipment identification labels, slide labels, or whatever other labels you can think of.

The DATABASE helps you keep track of all those shoeboxes full of slides and negatives. Describe your transparencies with multiple keywords in different categories. Later, retrieve photos by category and keyword. Each database can hold 65,000 records. If you use floppy disks for your database, you can use multiple disks for an unlimited number of records. (NOTE: You can average from around 1400 to 1800 records per floppy disk.)

(PC-SIG Disk# 1249)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Reorders and WedPrice

A quote generation and reorder system for a professional photography business.

REORDERS stores the number of each negative, a description, and the location, size, and quantity of the original. Call up a record by its number and enter a reorder by size and quantity. You can also print a listing of all originals and the amount of reorders. WEDPRICE gives three different versions of quotations for wedding pictures.

(PC-SIG Disk# 937)

Special Requirements: *A version of BASIC and a printer.*
Author Registration: *$35.00*

■ Slide Manager

SLIDE MANAGER organizes and catalogs your photographic slides or prints to make retrieval easy — with special features for artists who photograph their paintings for submissions to competitions.

For each slide or work of art, this specialized database stores the title, subject matter (12 categories), the medium (20 categories), dimensions of photo print or object, date created, ID number and special keywords. An additional history of where and when the slide has been shown, sent, sold or given an award can also be recorded.

The database allows you to search for a particular slide or group of slides by name, ID, or any of the other categories you've chosen. It can also produce a printed catalog of your collection, sorted in a variety of ways, such as by subject, alphabetically by title, etc.

(PC-SIG Disk# 1390)

Special Requirements: *None.*
Author Registration: *$54.95*

■ Slide.PC

SLIDE.PC gives shutterbugs an efficient way to print caption information on labels to identify slides and photos, and at the same time store the information to disk for exporting to a database.

Besides the printed label information, the program lets you include tech notes and comments in the data file. The data file format is compatible with Quattro, Lotus 1-2-3, dBase III, and several other popular databases. The data file can also be converted to ASCII text format to export into any wordprocessor. You can then print a complete catalog of your photo collection. Because each slide entry takes up one long line, you need to use a wide carriage printer in condensed font, or a standard dot matrix printer with a sideways-printing utility.

The menu-driven program also prints 7/16" by 1-7/8" pin-feed labels. A thoughtful routine helps you line up the labels before you execute the print function.

(PC-SIG Disk# 1418)

Special Requirements: *7/16" x 1 7/8" pin-fed labels and a dot matrix printer.*
Author Registration: *$30.00*

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Phrase Craze If you like word games, you'll love this one! Similar to "Wheel of Fortune," you must complete the phrase by guessing letters. See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk# 385)

Physics See *Chemistry and Physics.*

PIANO A fine collection of songs, and a program to write new ones! Play your PC as if it were a piano. Displayed notes sound when keys are pressed. See *Music.*
(PC-SIG Disk# 322)

Pianoman & Player Piano Play your PC as if it were a Steinway? Maybe not, but this program turns it into an electric piano! Record, edit, adjust pitch, build polyphonic melodies. Top-rated shareware. See *Music.*
(PC-SIG Disk# 279)

Pianoman Does Beethoven Exquisite translation of Ludwig van Beethoven's artistry to the PC using PIANOMAN. Includes Moonlight Sonata, and information on how you can create similar music. See *Music.*
(PC-SIG Disk# 1396)

Pianoman Goes Bach A varied collection of 12 musical pieces by Johann`Sebastian Bach, adapted for the PC. You'll be amazed! See *Music.*
(PC-SIG Disk# 1395)

Pianoman Goes Baroque Baroque music lovers will treasure these 10 18th Century compositions by Scarlatti, Telemann, Wagenseil, and Karl Philippe Emmanuel Bach adapted for the PC. See Music.
(PC-SIG Disk# 1397)

PictureThis Make professional-looking drawings and print them on your PostScript printer and imagesetter. See *Paint and Drawing Programs.*
(PC-SIG Disk#'s 1130, 1474)

Pie Charts See *Graphing Programs.*

Pinball See *Games, Arcade.*

Pinball Rally Here are three pinball games for the true addict. Great flipper action from your keyboard! See *Games, Arcade.*
(PC-SIG Disk# 557)

Piping To cause the output of one software process to become the input of another. See your DOS manual for additional information.

Pitch The number of characters per inch in printing.

PKPAK, PKUNPAK, and PKSFX A set of archiving utilities for the most efficient use of disk space. See *Archive/Compression Utilities.*
(PC-SIG Disk# 1330)

PKZIP, PKUNZIP, PKSFX Call it the "Amazing Shrinking RAM." Lets you cram a lot more programs and data onto that precious, crowded real estate of your hard disk by scrunching, squeezing, and smooshing your files! See *Archive/Compression Utilities.*
(PC-SIG Disk# 1364)

Planets PLANETS computes the position of major astronomical objects in our sector of the sky. See *Astronomy and Space Exploration.*
(PC-SIG Disk# 298)

Plat Designing See *Engineering.*

Play 'n' Learn Children, ages 1-1/2 to 4, will acquire computer skills, learn to recognize letters, and practice counting while playing the six educational games in this collection. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 916)

Plot A set of easy-to-use tools for technical plotting. Rectilinear, polar, and vector plotting are supported. See *Math and Geometry Programs.*
(PC-SIG Disk# 978)

Plot A set of quick, easy-to-use tools for various types of vector plotting. See *Math and Geometry Programs.*
(PC-SIG Disk# 1013)

Plotter Computer peripheral which draws on paper with colored pens. The plotter holds the pen over the paper and receives signals from the CPU regarding where to draw and in what color. Many drawing and graphics programs support plotters.

Plotting, Charts See *Math and Geometry Programs.*

Pocket Filer & Pocket Notes POCKET FILER and POCKET NOTES are two programs that make double-sided, pocket-sized address or note booklets from the entries in the program. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 896)

Poetease Roses are red, violets are blue, POETEASE will rhyme most anything for you! (As long as the spelling matches.) See *Writing and Composition Aids.*
(PC-SIG Disk# 1181)

Poetry See *Writing and Composition Aids.*

Poetry Generator Turn your computer into a poet! Using a 20,000-word vocabulary, POETRY GENERATOR creates free-verse poems at the touch of a key. The results are fascinating. See *Writing and Composition Aids.*
(PC-SIG Disk# 1166)

Point & Shoot Manage all of your programs, files, and directories with this system. See DOS Shells.
(PC-SIG Disk# 930)

Point & Shoot Backup/Restore Make fast, easy backups of your hard disk! See *Hard Drive Utilities.*
(PC-SIG Disk# 1188)

Point & Shoot Home Manager Manage many of the details of operating a home — from calculating the bills to addressing the envelopes, tracking auto maintenance to generating to-do lists, and much more! See *Home Management.*
(PC-SIG Disk# 940)

Poker Play draw poker head-to-head with the computer. POKER has a sophisticated style of playing and betting, and is intended to challenge the serious poker player. See *Games, Cards.*
(PC-SIG Disk# 791)

Poker See *Games, Cards.*

Poker The famous game of poker. Play against the computer in either five-card or seven-card play. See "Game Series 21" listed under *Games, Arcade.*

Poker Solitaire Play poker like it's never been played before. You are given 25 cards and are able to put them in any sequence on a 5 x 5 grid. Poker hands are then counted vertically, horizontally, or diagonally. See "Card Game Collection" listed under *Games, Cards.*

Polymath A scientific and technical computer language especially designed to be easy to work with! See *Math and Geometry Programs*.
(PC-SIG Disk# 606)

Pools, Football, and Other See *Gambling*.

Pop Train POP TRAIN is a help system you can customize to train new users on your applications. This RAM-resident program lets you put help messages exactly where needed, available at the touch of a hot key. See *Test and Quiz Preparation*.
(PC-SIG Disk# 1471)

Pop-up Program/Utility This is a memory-resident program or utility which can be used while operating a second program. When a "hot key" is pushed, the program or utility pops onto the screen over the primary program.

Port, Serial, Parallel A port allows devices like printers and terminals to access and be accessed by a computer microprocessor. Electronically, a port is a wire connection to the bus, the main electronic pathway to the computer processor. A parallel port lets the microprocessor or the device transmit several bits at a time, with each bit traveling over a separate wire. A serial port limits data transmission one bit at a time over one wire.

Portable Pascal Compiler A Pascal compiler and p-code interpreter for students. Compile code from a file or directly from the keyboard. See *Programming, Pascal*.
(PC-SIG Disk# 1321)

Portfolio Management See *Investment Management*.

Portrac Tracks all transactions of any investments, stocks, bonds, money and real estate, and calculates rates of return. See *Investment Management*.
(PC-SIG Disk# 754)

Portraits and Photographs, Record Keeping See *Photography*.

Portwort Package Monitor and evaluate your stock portfolios. Source code is included for further customization. See *Investment Management*.
(PC-SIG Disk# 101)

Postcards, Printing See *Mail Lists, Address Managers, and Telephone Organizers*.

Potpourri Menuing Program A menuing program with several helpful subprograms, such as a calculator and calendar. See *Menu Programs*.
(PC-SIG Disk# 919)

Power Menu Create simple menus for "point-and-shoot" running of programs. Provide password protection to keep others out of your hard drive. See *Menu Programs*.
(PC-SIG Disk# 727)

Power Sheets One of the most powerful spreadsheets made. Goes where Lotus 1-2-3 fears to tread. Used by Fortune 500 corporations. Offers true "3-D" capability and programmability. See *Spreadsheets*.
(PC-SIG Disk#'s 1284, 1285)

Practical Jokes

■ Hotboot and Insults

A couple of practical jokes that are fun for the PC user and, possibly, the PC victim.

HOTBOOT is a public domain version of a classic. If you like this one, get the original from Left-Handed Software. Load HOTBOOT into the system of your victim. From here on out, it's a flirtation of sorts between the PC and the user. As the user attempts to work with the computer, the computer issues increasingly more personal remarks. How real is this to the victim? You'll have to watch and see if you can figure it out.

INSULTS can randomly generate 22 million insults on the unsuspecting PC user — some of them even make sense. Not for the weak-stomached.

(PC-SIG Disk# 619)

Special Requirements: *None.*

Author Registration: *$14.00*

User Comments: *"Hotboot has some funny practical jokes."*

■ LoveDOS

This program gives a whole new meaning to "personal" in personal computer. Pre-install LOVEDOS on a friend's machine and sit back and watch 'em blush! With each keystroke, a provocative remark flashes to the screen, line after line, putting the moves on the operator. A sexy rework of the old INSULTS program. Nothing too suggestive, but choose your victim carefully anyway. At last, a truly user-friendly computer!

(PC-SIG Disk# 1403)

Special Requirements: *340K RAM.*

Author Registration: *None.*

■ Program Grab Bag

For the PC practical joker, here are several safe (but insane) scams to play on some unsuspecting user's computer. Place them in a batch file or on his hard disk. When he comes back and touches a key or boots up his computer, look out! One trick makes his machine sound like it's filling with water and then it goes into a spin drive cycle! Fun galore. Don't blame us, though, if your victim gets even!

Other programs included here are a bit tamer: Convert almost any U.S measurement to the metric equivalent and vice versa; covers temperature, liquid, weight, linear distance, speed, and square and cubic volumes. CHK4BOMB checks a program to see if it does any disk writing or formatting and also displays any text it finds in the program code. SCRAMBLE and UNSCRAM can be used to encrypt and decrypt sensitive and private files. OBLITER8 totally deletes a file so it will be unrecoverable. SHOW provides a graphics demonstration of the PC-SIG logo. Lastly, read a very uplifting text by Pythagoras, a famous early Greek philosopher and mathematician.

(PC-SIG Disk# 1314)

Special Requirements: *CG and a version of BASIC.*

Author Registration: *$15.00*

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Pregnant PREGNANT can help a woman with unstable menstrual cycles track the times when she is most likely, and least likely, to become pregnant. See *Health Management.*

(PC-SIG Disk# 1325)

Preschool Programs See *Children's Programs (ages 2-10).*

Presentation Graphics (Slides)

■ Collage

A computerized show-and-tell software package to create colorful graphic pictures on your computer. Create and save slides, combine created slides, and present the created and combined slides as a show on your computer screen. COLLAGE also lets you create and maintain text files (upper ASCII included) with several good editing and block features.

(PC-SIG Disk# 975)

Special Requirements: *None.*

Author Registration: *$10.00*

■ CompuShow

Scroll through your directory and choose the .RLE or .GIF file you wish to be displayed with COMPUSHOW.

.RLE graphics files support medium-(128 x 96) and high-(256 x 192) resolution monochrome graphics, and can be displayed on a CGA or Hercules video display. The image colors (black and white) may be inverted. .GIF graphics files support Hercules, CGA, EGA, EGA-480, MCGA, and VGA video displays for certain display modes. Before a .GIF graphics file is displayed, a menu on the screen will show all possible display modes and will highlight the modes that are recommended for your type of monitor.

COMPUSHOW allows you to pan the screen for display modes that make the image larger than your screen.

(PC-SIG Disk# 1461)

Special Requirements: *Hercules graphics, CGA, EGA, EGA-480, MCGA, or VGA.*
Author Registration: *$15.00*

■ Gemcap

GEMCAP is a memory-resident utility that helps you capture screen images from programs, save them in separate disk files, and load them into other programs. The disk files are compatible with any program that reads GEM.IMG files, regardless of whether the original screen was in text or graphics mode. These include WordPerfect, Ventura Publisher, and many other popular programs.

(PC-SIG Disk# 1305)

Special Requirements: *CGA or EGA.*
Author Registration: *$20.00*

■ PC-Demo Graphics Presentation Package

PC-DEMO is a graphics package that lets you create demonstrations featuring graphics animation, program interface capabilities, and slide shows.

Use the full range of characters and colors on your computer. Choose between big or small characters. Fill in a box, move it, copy it, and even rotate it. Use the cursor keys to draw your picture without the need for a mouse or pad. Slides can be organized into an interactive demo which accepts input from users.

(PC-SIG Disk# 914)

Special Requirements: *Two floppy drives.*
Author Registration: *$35.00*

User Comments: *"Very good. Beautiful demonstration of program capabilities. Hard to believe all this is packed into one disk." "Very useful tool for office demonstrations. Works great with graphics."*

■ PC-FOIL

PC-FOIL consists of two routines — FOIL-EDIT and PC-FOIL. These programs combine to provide a multi-purpose tool for the creation of overhead transparencies and attractive documents.

When the large print, bold print, and boxes are combined with your own creativity and agenda, the effect can be dramatic. You develop the presentation or document using FOIL-EDIT, a general purpose full-screen editor, and then print it. Use it as a word processor, creating programs or modifying standard DOS files. Fast and easy to use, it offers both menus and commands appropriate to your skill level. Complete with on-line help.

You have the information you want to present. Now, here's the program that can do it!

(PC-SIG Disk# 347)

Special Requirements: *Two floppy drives and graphics printer.*
Author Registration: *$25.00*

■ Slide Generation

This program produces medium-quality slides and overhead transparencies. Images can be created, edited, saved, displayed, and printed using this program. Overhead transparencies are produced by photocopying the printed output onto transparent material. Photographic slides are produced by photographing the display or printed output.

(PC-SIG Disk# 244)

Special Requirements: *CGA.*
Author Registration: *$25.00*

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Presidents, The Test students' knowledge of all the U.S. presidents. Provides multiple-choice questions and answer keys. See *History, Education.*
(PC-SIG Disk#'s 1065, 1066)

Pricebook, The A centralized item-pricing log for businesses with many items to track that also generates quotes, orders, and invoices with pricing data automatically entered and calculated, eliminating manual errors. See *Accounting, Inventory Control.*
(PC-SIG Disk#'s 1373, 1374)

Prince The king has died and you now have the throne. It is up to you to delegate authority throughout your country by mobilizing your armies, conquering countries, and looking out for the good of your people. See "International Game Collection", listed under *Games, Arcade.*

Print Spooler See Spooler.

Printed Circuit Design See *CAD (Computer Aided Design) and Designing.*

Printer An exceptional collection of printer and spooler utilities for the Epson printer and compatibles. See *Printer Utilities.*
(PC-SIG Disk# 186)

Printer Art A variety of graphics for printing, ranging from cartoons to over-sized printouts to ooo-la-la! See *Paint and Drawing Programs.*
(PC-SIG Disk# 154)

Printer Managers

■ Bradford

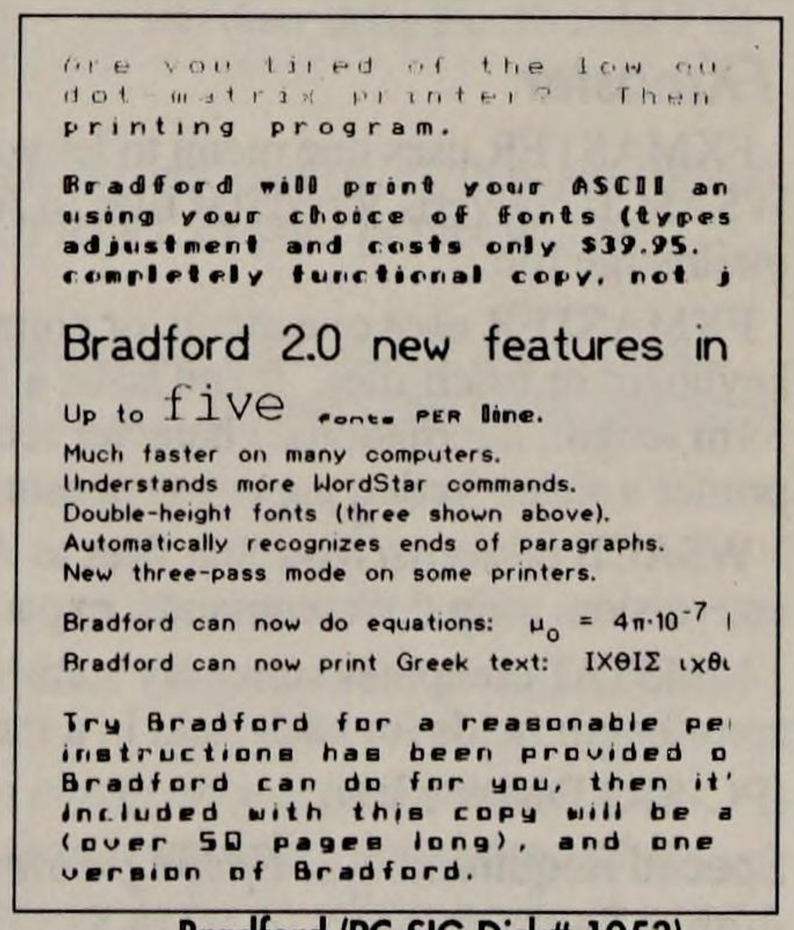
You don't need an expensive laser printer to output pages in beautiful fonts. With BRADFORD, you can print any ASCII or WordStar file in different types of fonts (typestyles) on your dot-matrix printer. The fonts include Greek text, double-height fonts, typewriter quality print, a variety of italics, and much more. There are over 40 fonts included and you can create additional fonts.

BRADFORD is excellent for printing other languages, such as Russian or Hebrew. Print reports and memos. The font commands can either be issued when BRADFORD is executed, or can be inserted into text files.

BRADFORD also has commands for page formatting. These include adjustable margins, center text, adjustable page length, underline, double underline, boldface, superscript, subscript, and proportional spacing.

(PC-SIG Disk# 1053)

Special Requirements: *IBM or Epson-compatible printer.*
Author Registration: *$25.00 or $39.95*



Bradford (PC-SIG Disk# 1053)

User Comments: *" Impressive number of font choices." "Great fonts, but light on documentation." "One of the best disks I own. Makes my work look professional."*

■ Citizen

A pair of utility programs for the Citizen printer. Pitch allows you to change the pitch (characters per inch) at which you want to print your document. It handles 10 (pica), 12 (elite), 17, 20, 8.5, 6, and 5 pitch. Envelope lets you quickly type one or more addresses from the keyboard without having to enter a word processor.

(PC-SIG Disk# 1403)

Special Requirements: *Citizen MSP-10/15 or MSP-40/45.*

Author Registration: *None.*

■ Disk Spool II

Don't waste valuable computer time waiting for a report, a memo, a spreadsheet, or any other printing job to finish printing. Send your print files to a spooler. The spooler will hold your file until the printer is available while you go on with your work. DISK SPOOL II has two main parts: a spooler and a writer. The spooler intercepts data going to the printer, and redirects it to disk. The writer takes data from the disk and sends it to the printer.

The pop-up menu lets you control whether or not the spooler and/or the writer are active. You can, for example, start the spooler and not the writer, sending the printed output to disk, and nothing will be printed. This mode is particularly useful if you don't have a printer attached to your computer. You can still do your work and transport the spool file to a machine that has a printer attached.

Change spool and writer ports as needed, drive more than one printing device at a time, and fine-tune your system for optimal printing speed.

(PC-SIG Disk# 609)

Special Requirements: *None.*

Author Registration: *$34.00*

User Comments: *"Now I can accumulate a number of small printing jobs and print them at a convenient time."*

■ Epset

EPSET offers you a nifty collection of batch commands to set the print parameters on the Epson MX, LX, and FX series. One command, TINY.BAT, produces the smallest print you've ever seen from your dot matrix! It works with most Epson compatibles (but experiment first).

(PC-SIG Disk# 1370)

Special Requirements: *None.*

Author Registration: *$5.00*

■ FXmaster

FXMASTER uses one menu to let you select all 160+ Epson FX-series fonts from your keyboard or batch files. WSASCII converts WordStar files to ASCII, and vice versa. MMSTAT computes statistics for field lengths in a mailmerge file.

FXMASTER uses one menu, or command line parameters, to let you select all Epson FX-series fonts from your keyboard or batch files. It can issue a reset, line feed, or form feed, and can variably set margins, line spacing and form length, international character sets, and skip over perforation. It also allows you to toggle on/off your printer's sheet-feeder, paper-out sensor, typewriter, and quiet (half-speed) modes.

WSACII converts WordStar files to ASCII, and vice versa. Several special options allow you to customize the conversion: strip dot commands, expand taps, strip leading spaces, and compress spaces.

MMSTAT computes summary statistics, average/maximum/minimum lengths, and number of empty or zero-length fields for each field in a mailmerge file.

(PC-SIG Disk# 1369)

Special Requirements: *Epson printer.*

Author Registration: *$10.00 to $15.00*

■ Garc's Utilities

Need to find a name or other text in a long file? Set up print parameters for your Epson-compatible printer? Choose screen colors on CGA, EGA, and VGA systems? Or find a BBS phone number quickly and easily? If so, GARC's for you!

Give TEXTSRCH a filename and the text, name, or data you are trying to locate. Go warm your coffee and by the time you get back, this program will have numbered the lines in your file and listed those which contain the text you are searching for.

EPSET offers you a nifty collection of batch commands to set the print parameters on the Epson MX, LX, and FX series. One command, TINY.BAT, produces the smallest print you've ever seen from your dot matrix! EPSET works with most Epson compatibles, but experiment first.

COLORSET displays a chart of available colors from which you can choose your screen settings on CGA, EGA, and VGA systems.

FINDBBS provides you quick access to hundreds of bulletin board systems' (BBS) phone numbers across the nation. Dial up and log on. It also serves as the BBS search door for WILDCAT! BBS (PC-SIG Disk#'s 745, 746).

(PC-SIG Disk# 1370)

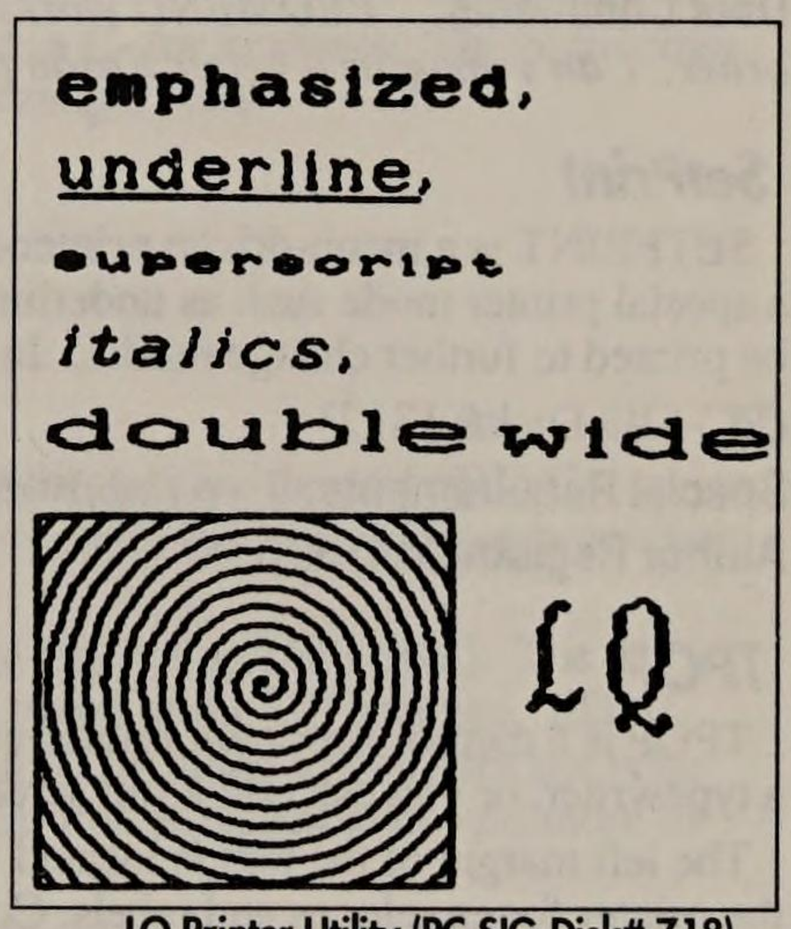
Special Requirements: *None.*
Author Registration: *$5.00 each.*

■ LQ Printer Utility

So you want letter quality, but you're stuck with that old nine-pin dot matrix printer? Don't just resign, join the club; discover LQ PRINTER UTILITY! It is an impressive printer utility program that lets you use your inexpensive dot matrix printer to print a variety of fonts in near-letter quality. It can be loaded as a memory-resident program to filter the data from your wordprocessor or other programs, or it can be used alone to process individual files. But if you have the 80K or so of RAM, the memory-resident mode is the most convenient way to use this program.

LQ PRINTER UTILITY includes pre-defined fonts of Courier, Greek, Helvetica, Roman, and many others (italics for each font are included). A character editor is also provided to let you modify or create your own font sets. Each font character is 10 by 24 dots, so there is enough resolution to make some fairly decent fonts.

Like all programs of this sort, LQ PRINTER UTILITY uses a graphics mode for your beautiful new fonts and printing takes longer — but it's worth the wait. It also provides a print spooler, and this optimizes graphics printing.



LQ Printer Utility (PC-SIG Disk# 718)

Included is the program BIGPRINT, which lets you print large letter banners (using any of the same fonts that LQ uses). If your printer is an Epson (or compatible), the banner letters are made using the block graphics characters; otherwise, they are created with asterisks. (Just make sure you don't have LQ loaded when you run BIGPRINT, or your printer will be running forever.)

A new feature of LQ is a program that lets you create and edit your own letterheads. LETHEAD is a graphics editor that works with LQ to produce high-resolution letterheads consisting of 1" x 1" pictures and up to four lines of accompanying text.

(PC-SIG Disk# 718)

Special Requirements: *Epson or compatible printer.*
Author Registration: *$35.00*
➤ ***ASP member.***

User Comments: *"Prints well. Easy to follow. Great fonts." "LQ loves a cheap printer and makes it look great." "Beautifully documented! Gives truly letter-quality print in more than twenty different fonts and it's easy to use! As good as a laser printer, but costs a lot less." "The print spooler helps by allowing me to use my computer while printing. LQ let me create my own font sets." "Extremely easy to use. Excellent, very helpful. Use it all the time."*

■ Prn Set

PRNSET is a universal, nonresident, printer-setting program that takes its configuration information from a file which you can make with any text editor. This feature makes it possible to set the print control symbols for any printer and select and organize the instructions you want to have in PRNSET's repertoire. It can operate interactively through a menu, from a batch file, or directly from the DOS command line.

(PC-SIG Disk# 1303)

Special Requirements: *Printer.*
Author Registration: *$15.00*

■ ProMenu32

A memory-resident printer-control menu for Epson and compatible printers.

PMENU3 gives you control codes, such as condensed, double strike, or underline, on command. Once loaded, you can access PMENU3 while running your program and enter codes one at a time, or combinations of codes, such as "bold and italics."

Smarter than your average printing program, PMENU3 does not display or send conflicting codes to the printer, and is also unloadable from memory.

(PC-SIG Disk# 779)

Special Requirements: *Printer.*
Author Registration: *$15.00*

User Comments: *"PROMENU works great with the printer." "Outstanding. Becomes essential in short order. Can't imagine a better Epson print utility."*

■ SetPrint

SETPRINT is a menu-driven printer-setting utility. Used before printing a file, you can set pitch and weight, set a special printer mode such as underlining, or just reset the printer. Commands can be imbedded within the file to be printed to further change modes. In addition, you may pause the printing for manual feeding.

(PC-SIG Disk# 1312)

Special Requirements: *Two floppy drives and an Epson-FX or compatible printer.*
Author Registration: *$10.00*

■ TPOP

TPOP is a memory-resident printer utility to use with any application. TPOP lets you use your printer directly as a typewriter, or you can edit a full screen of text. While editing, you can mark blocks of text to send to the printer.

The left margin of the text is located wherever the print head is positioned before printing and lets you line up the printer for envelopes and labels. Control codes can be sent to the printer. You can direct the output from TPOP to any port (parallel or serial — LPT1, LPT2, COM1, or COM2), and you can permanently swap the addresses of printer ports.

(PC-SIG Disk# 1026)

Special Requirements: *Hard drive and a printer.*
Author Registration: *$10.00*

■ Typerite

Turn your PC and its printer into an electric typewriter. TYPERITE is simple, straightforward and faster than using a wordprocessor for some day-to-day jobs.

(PC-SIG Disk# 860)

Special Requirements: *Printer.*
Author Registration: *None.*

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Printer Setup Programs See *Printer Managers.*

Printer Utilities, Laser

■ 4Print

If you're a professional programmer or a home hacker who's "gone laser," 4PRINT is a simple-to-use, paper-conserving, laser printer utility that can ease program code documentation. 4PRINT lets the HP LaserJet, LaserJet+, Laser Jet II, and compatibles print title lines, plus four 66-line, 80-column pages of ASCII text on 8-1/2" x 11" sheets of paper.

4PRINT helps you maintain source code by automatically recording a program listing's file name, date, time, and page count. It allows 264 lines of contiguous code to be visible at once in an opened three-ring binder, and can print multiple source files with a single invocation. 4PRINT handles tabs, form feeds, and end-of-file characters like a pro!

(PC-SIG Disk# 1079)

Special Requirements: *HP LaserJet, LaserJet+, LaserJet II, or compatibles.*
Author Registration: *$25.00 to $35.00*
➤***ASP member.***

■ Dear Teacher HP Laser Font

DEAR TEACHER is a sloppy handwriting soft font for the HP LaserJet II. "What's a sloppy handwriting soft font?" you say. It's a wonderful font that will make anything you print look like a little kid wrote it. From backwards letters to capitals in the middle of a word, it looks great and brings back memories.

The character set will print 84 characters per line, 75 lines per page, and gets a C- for neatness. The font comes with source code, written in Microsoft C, for those who wish to create even stranger fonts!

(PC-SIG Disk# 1228)

Special Requirements: *HP LaserJet II.*
Author Registration: *None.*

■ Elfring DeskJet Softfont Package

HP Deskjet owners, rejoice! Now a complete soft font package is available for the DeskJet. ELFRING DESKJET SOFTFONT PACKAGE (EDSP) has 25 different fonts and a lightning-fast download program written especially for DeskJets with the 128K RAM cartridge.

EDSP offers more fonts for the deskjet in more sizes than any other package (including HP's own). The download program is fully-functional, loading fonts at nearly three times the speed of the HP package. EDSP fonts are available in 8-to-30-point size ranges, while HP fonts stop at 12 points. Included in this package is an unusual symbol font that permits the inclusion of character-sized airplanes, umbrellas, trademarks, and more in documents.

Soft fonts for the DeskJet are not compatible with LaserJet fonts, so many applications, such as MS-WINDOWS, do not support soft fonts for the DeskJet. With some adjustments, this package enables DeskJets to fully emulate LaserJets, making the DeskJet RAM cartridge worth the price.

This author is an ASP member.

(PC-SIG Disk# 1462)

Special Requirements: *HP DeskJet with 128K RAM cartridge.*
Author Registration: *$25.00*

■ HP LaserJet Soft Fonts and Utilities

SOFT FONTS AND UTILITIES is a boon to laser printer owners. Imagine a great font downloader, handy utilities, and a wealth of incredibly useful soft fonts — all in one package!

For headlines, you get 18-point Broadway font with a Ventura width table and matching EGA screen font. To complicate things, try a set of 24-point symbols such as copyrights, bullets, and circled numbers.

Next, drop down to 10-point typefaces. You get proportionally spaced Roman Times in bold, italic, and medium. Likewise, you get proportionally spaced Helvetica fonts in bold, italic, and medium. If that's not enough, try Garamond in medium, bold, and italic.

An elegant Century Legal is buttressed by an extended character set with a number of useful symbols. It includes printer drivers for MS Word and WordPerfect. The proportionally spaced Script soft font and the Greek

font will give your documents variety. Programmers can document routines with the font filled with keyboard characters.

The download program is as elegant as the typefaces. You can use it to download any HP-compatible font. If you prefer, it will assign an ID number of your choice and designate primary or secondary and permanent or temporary status for a font. The utility can download directly from archived files.

Print a sample sheet of any particular font — a handy utility if you've come across a disk full of fonts. Another utility will print out the sort of technical information on typefaces graphic artists delight in. A final program gives you information on LaserJet and DeskJet font formats.

(PC-SIG Disk# 1463)

Special Requirements: *HP LaserJet or compatible.*
Author Registration: *$15.00*

■ P4UP

P4UP compresses 4 normal page images onto one page (four quadrants) of output, using its own fonts, with an HP LaserJet II printer. P4UP is very easy to use in command line form (just like DOS print) and has several options to change the order of the quadrants. No soft font expertise is required. It is ideal for printing large documents or program source files. Since four pages are shrunk to one piece of paper, a lot of desk space (and paper) can be saved.

(PC-SIG Disk# 1460)

Special Requirements: *HP LaserJet II.*
Author Registration: *$29.95*

■ Pamphlet

PAMPHLET is a printing utility for HP LaserJets that creates 5-1/2" x 8-1/2" mini-booklets or pamphlets.

PAMPHLET divides any ASCII file into mini-pages, and then prints them in landscape (sideways) mode, two-up on a single sheet. A second pass through the printer to print the opposite side and — VOILA! You have a mini-book. Page arrangement is automatically determined by the program, so the resultant sheets are in correct order. Just fold down the middle and staple to form useful little pamphlets, booklets, or documentation manuals. PAMPHLET is also great for parents wanting to create personalized storybooks for their children.

Users can select from any of 25 resident fonts, upload additional soft fonts, place page breaks, automatically number pages, underline, and more. There is even a built-in editor, and a configuration for using the program with European metric A4 paper size.

(PC-SIG Disk# 1222)

Special Requirements: *HP LaserJet II.*
Author Registration: *$25.00*

■ Tiny Fonts for HP Laser Jet

As its name suggests, TINY FONTS is a set of programs that generate very small character fonts for the HP LaserJet series II printers — so small, in fact, that you might need a magnifying glass to read them.

There are two aptly named fonts, MYOPIA and FLYSPECK. MYOPIA crams 128 lines, with up to 200 characters each, onto one sheet of paper. It saves you reams and reams of paper, excellent for those long text files that you have to print on a daily basis. FLYSPECK outputs even smaller, 188 lines, with up to 260 characters each per page.

In addition to dense printing of text files, these tiny fonts are suitable for labeling schematics and other technical diagrams. C source code as well as tips on how to generate custom fonts are also included for those who want to experiment on the micro-small level.

(PC-SIG Disk# 1224)

Special Requirements: *HP LaserJet II.*
Author Registration: *None.*

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Printer Utilities 2 A super collection of printer utilities for the popular Epson series and compatibles. Print labels and banners. Control fonts, spacing, printer ports, and more! See *Printer Utilities.*
(PC-SIG Disk# 326)

Printer Utilities 4 Print banners, print sideways, do screen dumps, and more. See *Printer Utilities.*
(PC-SIG Disk# 411)

Printer Utilities 7 A pop-up set of printer utilities for controlling formatting and lines per page, printing labels, character sets, and creating wrapping paper. See *Printer Utilities.*
(PC-SIG Disk# 1069)

Printer Utilities 8 Ease the setup of the Panasonic KX-1091, Star Micronics, Gemini, and Epson printers. See *Printer Utilities.*
(PC-SIG Disk# 438)

Printer Utilities

■ Printer

The printer utilities in this package are for Epson and compatible printers. Control your printer from the keyboard. Specify a variety of print modes and fonts such as compressed, italics, emphasized, underline, and more — from within other applications.

(PC-SIG Disk# 186)

Special Requirements: *Epson MX80 or compatible printer.*
Author Registration: *None.*

File Descriptions:

NOCOLOR	COM	Switch color graphics card to B/W mode.
NOCOLOR	DOC	Documentation.
COMPRSOF	COM	Set compressed print off.
COMPRSON	COM	Set compressed print on.
CREATOR	BAS	Displays characters in dot matrix pattern.
DBLHITOF	COM	Set enlarged print off.
DBLHITON	COM	Set enlarged print on.
DBLWDEOF	COM	Set wide print off.
DBLWDEON	COM	Set wide print on.
EMPHASOF	COM	Set emphasized print off.
EMPHASON	COM	Set emphasized print on.
EPSONCHR	ASM	Assembler source.
EPSONCHR	DOC	Documentation.
EPSONCHR	EXE	Permits printing all characters.
ITALICOF	COM	Set italics off.
ITALICON	COM	Set italics on.
KYBD	BAS	Send printing directly to monochrome parallel port.
PRINTSET		Sets Epson to compressed print.
PRINTSET	DOC	Documentation.
RESET	COM	Reset printer to power-on settings.
SET-PRTR	C	Source.
SET-PRTR	EXE	MX-80 printer settings.
SET51LNS	COM	Set 51 lines per page.
SETCW132	COM	Set 132 columns per page.
SETPRF19	COM	Perforation setting.
SKP6PERF	COM	Perforation setting — 6 lines/inch.
SKP8PERF	COM	Perforation setting — 8 lines/inch.
TOPOFORM	COM	Skip to top of form.
UNDERLOF	COM	Set underline off.
UNDERLON	COM	Set underline on.

■ Printer Utilities 2

A super collection of printer utilities for the popular Epson series, this one is especially good for the setup and applications of the Epson FX-80 printer. You can get special effects, italics, doublestrike and compressed characters, print mailing labels, and much more.

Worthy of your attention: the DISKMASTER utility prints disk labels on 5x1 7/16 inch label stock. This size label just fits on the top of a standard 5 1/4 inch disk. The program supports EPSON, IBM, and OKIDATA printers with plug-n-play. Many options are provided. Also, for those of you into banners, SIDEWAYS and POSTER are certainly worth playing with.

(PC-SIG Disk# 326)

Special Requirements: *Printer.*

Author Registration: *$10.00 to $25.00*

File Descriptions:

BUZOFF	COM	Checks for printer.
COLRVIEW	EXE	Print & display text file in color.
EMBEDDED	BAS	Basic prog to demonstrate embedded print attributes.
FASTPRT	COM	Resident speed up for PrtSc utility.
FASTPRT	DOC	Documentation for FASTPRT.COM.
FORMFEED	COM	Set prnter to top of form from DOS, batch file, WordStar.
FORMFEED	DOC	Documentation for FORMFEED.COM.
FSPOOL	COM	Resident prog to redirect parallel prnter output to disk.
FSPOOL	DOC	Documentation for FSPOOL.COM.
FXPR4	DOC	Epson FX-80 utility to change print font sizes & styles.
FXPR4	EXE	Documentation for FXPR4.
GRAF	COM	Print IBM PC graphics on bit-plot printers.
GRAF	DOC	Documentation for GRAF.COM.
JUST-LQ	EXE	Micro-justification file printer for EPSON LQ- 1500.
JUSTIFY	DOC	Documentation for JUSTIFY.EXE.
JUSTIFY	EXE	Print justified copy on low-priced printers with graphics.
LABEL	EXE	Prints on 5 line labels.
P	COM	Powerful prnter utility - compress, double, italics, etc.
PERFSKIP	COM	IBM or MX-80 printer utility to skip over perforations.
PERFSKIP	DOC	Documentation for PERFSKIP.COM.
PLOTTER	BAS	Basic program to plot various graphs.
POSTER	BAS	Large poster maker. Puts your message on printer sideways.
PRINTES1	BAS	Printer test returns printer speed char/sec lines/min.
PRINTFIX	COM	Possible fix for bad print - character/lines dropped.
PRINTFIX	DOC	Documentation for PRINTFIX.COM.
PRTPAGE	DOC	Documentation for PRTPAGE.EXE.
PRTPAGE	EXE	Print with pagination - spool to disk, line numbering.
SCNMAP	BAS	Produces paper chart of 40 or 80 col screen Epson MX-80.
SCNMAP	DOC	Documentation for SCNMAP.BAS.
SETPRN	COM	Printer utility for IBM PC- set from DOS or batch file.
SETPRN	DOC	Documentation for SETPRN.COM.
SIDEWAYS	EXE	Prints a disk file sideways on printer.
SWPTR	COM	Swaps printer LPT1: with printer LPT2:.
SWPTR	DOC	Documentation for SWPTR.COM

■ Printer Utilities 4

This disk has a set of utility programs useful in many printer applications. There are programs to print banners, print data sideways for wide documents, use print spoolers, do graphic screen dumps to a wide variety of printers, permit output that would normally go to the printer to be redirected to a disk file, and change printer settings. The ever-popular SIDEWAYS program rounds out the disk.

(PC-SIG Disk# 411)

Special Requirements: *None.*

Author Registration: *Various Amounts.*

File Descriptions:

BANNER85	DOC	Documentation for BANNER85.EXE program.
BANNER85	EXE	Takes sideways banners on any printer.
EPSTART	COM	Menu control of Epson/IBM/STAR printers.
EPSTAR	DOC	Documentation for EPSTAR.COM program.

EPSET	COM	Setting control of EPSON/IBM/STAR printers.
EPSET	DOC	Documentation for EPSET.COM.
FPRINT	COM	Enhanced print spooler for PC/MS-DOS — prints a queue.
FPRINT	DOC	Documentation for FPRINT.COM program.
FX	COM	Replacement for GRAPHICS.COM (graphics screen printer).
GEMGRAPH	COM	Replacement for GRAPHICS.COM for GEMINI 10X printer.
GEMGRAPH	DOC	Documentation for GEMGRAPH.COM program.
GRAFTRAX	COM	Replacement for GRAPHICS.COM for EPSON MX80 printers.
LASERFON	EXE	Laser printer settings.
LPR	EXE	Line printer utility.
LPTPORT	COM	Printer port switcher.
LPTSWAP	COM	Printer port swapper.
LQ	COM	Produce letter quality & proportional spacing on an EPSON.
LQ	DOC	Documentation for LQ.COM program.
LU	EXE	Library file manager (menu driven).
OKIDUMP	COM	Downloading of all ASCII/italic characters to a printer.
PERFSKIP	COM	Skip designated number of lines over perforations.
PERFSKIP	DOC	Documentation for PERFSKIP.COM.
PM	DOC	Documentation for PM.EXE program.
PM	EXE	Print-master program — modifies printer settings.
PMCONFIG	PRT	Printer configuration file for C.ITOH Prowriter.
REDIRPRN	EXE	Redirects printer output to a disk file.
REDIRPRN	TXT	Documentation for REDIRPRN.EXE program.
SFTPRTSC	COM	Produce Shft/PrtSc (screen — printer) from a batch file.
SIDEWAYS	EXE	Sideways printing of text to EPSON printers.
TOF	COM	Advance printer to top-of-form from batch file or DOS.
TOSHDUMP	EXE	Replacement for GRAPHICS.COM for TOSHIBA printers.
TPRINT	COM	Replacement for PRINT.COM - start at any page.
TPRINT	DOC	Documentation for TPRINT.COM program.
VPRINT	ARC	Redirect printer output to a disk file.
SP	EXE	Print spooler program.
SP	DOC	Documentation for SP.EXE.

User Comments: *"Very good programs. Top-rate service. Excellent Epson utility."*

■ *Printer Utilities 7*

X-PRINT is a memory-resident printer utility for Epson and compatible printers. It lets you change the printing style to pica, elite, compressed, or near letter quality. You can also change the lines per page to 66, 51, or 33. Once loaded, X-PRINT stays in memory and can be activated at any time, even if you are in the middle of executing a program.

LINES takes any ASCII text file, and converts certain selected characters into line-drawing characters. These line-drawing characters are part of the IBM extended character set that can be used to make professional-looking forms and charts on the screen or the printer.

DISK LABELER makes disk labels using one of three different sizes of labels: 1" x 3", 1" x 3.5", and 2.75" x 2.75". It's menu-driven and easy to learn (requires CGA).

SETIT is a menu-driven BASIC program that sets up an Epson FX series or compatible printer. Don't change the printer's dip switches or use BASIC to set up your printer. SETIT can set the printing style to near letter quality (NLQ), draft, proportional, condensed, double-wide, double-high, emphasized, double strike, superscript, subscript, and underline. You can also select the character set to be used from Epson character graphics, italics, or one of the international character sets.

GIFTWRAP lets you make custom wrapping paper. Just enter a short and personal message and the program prints it in slanted stripes or a zig-zag pattern.

(PC-SIG Disk# 1069)

Special Requirements: *CGA and an IBM or Epson-compatible printer.*

Author Registration: *$15.00*

■ Printer Utilities 8

ATTENTION Star, Gemini, Epson, and Panasonic printer owners — here's a set of utility programs to exercise some of the more popular printers and really take advantage of their special capabilities. Jazz up your printing!

(PC-SIG Disk# 438)

Special Requirements: *Star, Gemini, Epson, or Panasonic printer.*

Author Registration: *$13.00*

File Descriptions:

		PANASONIC PRINTER SETUP UTILITIES.
CR8CMD	EXE	Program PANASONIC KX-1091 printer.
CR8CMD	DOC	User documentation for the above program.
CR8READ	ME	Explanation of how to use the program.
		STAR MICRONICS GEMINI PRINTER UTILITIES
GEM'PRTR	BAS	Keyboard control options for STAR MICRONICS 10X/15X.
README	DOC	Instructions on the use of the main program PRT'CTRL.BAS.
ABSTRACT	TXT	An abstract of the files on this disk.
FILE1	TMP	Command line for use when the BASIC call is "BASICA."
INSTALL	BAT	Installation routine for different BASIC calls.
README	BAT	This file allows easy reading of the instruction file.
FILE2	TMP	Command line for use when the BASIC call is "GWBASIC."
FILE3	TMP	Command line for use when the BASIC call is "BASIC."
		EPSON & STAR PRINTER SETUP UTILITIES
README		An abstract of the files on this disk.
SETE	COM	EPSON printer setup utility.
SETE	ASM	Assembly source for SETE.
SETLQ	COM	STAR printer setup utility.
SETLQ	ASM	Assembly source for SETQL.
SET	DOC	Help file for SETLQ and SETE.
		BANNER PROGRAM.
BANNER	EXE	A program for printing wide banners on your printer.
		BASIC PROGRAM LISTER.
LISTASC	DOC	One page instruction and user notes.
LISTASC	EXE	Lists BASIC programs — compiled program executable code.
PRINTDOC	BAT	Prints LISTASC manual.
README1	TXT	Introductory text file.

■ Utilities Galore

Make your printer serve you better with this collection of utilities. There's even a game thrown in for fun!

DIRPRN prints a disk directory sorted in various ways to make it easy to find a file. ENVPRN turns your computer into an electric typewriter for quickly dashing off addresses on an envelope in a variety of fonts. LABPRN works similarly but is specifically formatted to handle labels, such as for binders/drawers. MERPRN merges several separate text files into one formatted printed text. SETPRN sets the printer parameters prior to using a print spooler. XTRPRN extracts and prints call declarations and comments from Turbo Pascal source files.

All the programs let you select the print quality, text style, margin width, page numbering, printer port, and line spacing. They can be added as batch files to run whenever needed.

COLORE lets you choose the colors your monitor will display when your system first boots up. You can select from 16 different colors for the foreground, background, and border of your monitor.

SURVIVAL is a game that requires quick reflexes. With a boxing glove, you must punch monsters before they descend to the bottom of the screen, sending them back to the top.

LABEL computerizes your personal address/telephone directory for easy reference and printing of reports and labels. Menu options let you print: address labels (using standard 15/16" x 3-1/2" wide labels), list of all records (done with two entries side-by-side on 8-1/2" x 11" paper), telephone list (only those records with a telephone number are printed), and individual records you select. Handles both three-and four-line addresses, automatically suppressing blank lines.

DOCFORM lets you add printing instructions to any text file to specify boldface print, underlined print, margins, double or triple spacing, headers, and footers — which then print correctly on almost every printer.

(PC-SIG Disk# 1299)

Special Requirements: *DataProducts DP8070, Epson MX/FX, IBM Proprinter, or compatible.*

Author Registration: *$20.00 for LABEL.*

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Printing Banners See *Banner Makers.*

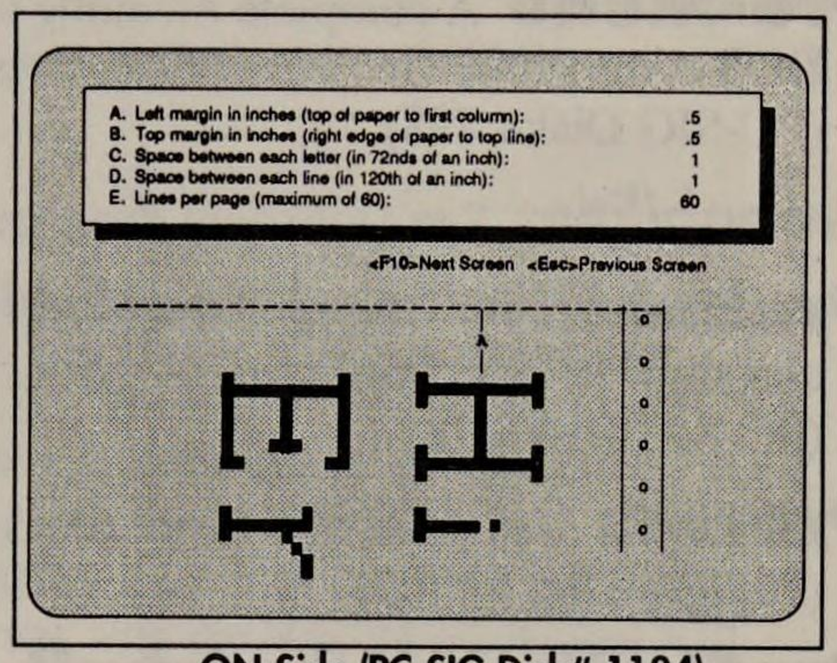
Printing, Sideways

■ ON-Side

ON-SIDE prints reports down the page (on their side), instead of across, in a variety of character font styles. It is useful for a presentation which looks perfect on the screen, but when you attempt to print it, it's too wide to fit on the paper. If a report overlaps onto two or three pages, the perforations can be left connected, so a really wide report folds up nicely for filing. ON-SIDE is perfect for use with a spreadsheet, wordprocessor, or any other program that can write its printed output to a disk.

(PC-SIG Disk# 1184)

Special Requirements: *Dot matrix printer.*
Author Registration: *$19.95*



ON-Side (PC-SIG Disk# 1184)

■ Side Writer

Are your spreadsheets too wide to print in one piece? Have you had to resort to cut-and-paste methods to tie your outline together? Try SIDEWRITER.

SIDEWRITER lets printers output sideways on paper. This lets you print reports and other materials that do not fit across a page, because it prints down the length of the sheet instead of across the width. It works much like SIDEWAYS.

SIDEWRITER prints existing text sideways, allowing unlimited print width. Spreadsheet columns can be printed on one continuous page. The function keys and menus make it easy to learn and use.

(PC-SIG Disk# 523)

Special Requirements: *IBM, Epson, or HP ThinkJet printer.*
Author Registration: *$15.00*

User Comments: *"Good screen layouts, but a bit light on documentation." "Great tool for presentations." "Good for the obvious — spreadsheets. But I also use it for work schedules and weekly menus."*

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Private Bookkeeper A small business accounting package for non-CPAs — sophisticated enough to support all the necessary business bookkeeping functions. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 1089)

Private Line, The Information is the currency in today's world. Protect your data with THE PRIVATE LINE, an encryption/decryption program. See *Communication Programs.*
(PC-SIG Disk# 893)

Prn Set A non-resident, printer-setting program. Set the print control symbols for any printer from a menu, a batch file, or directly from DOS. See *Printer Managers.*
(PC-SIG Disk# 1303)

PRN-FILE Redirect all information normally sent to your printer, to a disk file of your choosing. See "Baker's Dozen" listed under *File Management Utilities.*

Pro Librarian An information-retrieval system based on the articles and books in your own reference library. Find it when you need it! See *Library Record Keeping (Including Dewey Decimal).*
(PC-SIG Disk# 1313)

PRO-DEX Database Management System An electronic Rolodex tracking system to store and maintain an index of names and addresses. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 927)

Pro-Menu A complete menuing system that goes beyond choosing your programs and helps you with DOS commands. See *Menu Programs.*
(PC-SIG Disk# 798)

Probabilities See *Statistical Programs.*

Probability and Statistics Mathematical and statistical programs for the engineer, scientist, and student. See *Statistical Programs.*
(PC-SIG Disk# 985)

Process Use point-and-shoot access to many small programs. See *File Management Utilities.*
(PC-SIG Disk# 1305)

ProChallenge Baseball A one- or two-player strategy game of computer baseball that simulates the 1987 World Series between St. Louis and Minnesota. You call the pitches, you bat, and slide home! See *Games, Arcade (Sports).*
(PC-SIG Disk# 1207)

Procomm PROCOMM is a telecommunications program designed to provide easy and convenient access to a broad variety of telecommunications tasks. See *Communication Programs.*
(PC-SIG Disk# 499)

Procon Fortune Who are you, really? Reveals your personality based on both Western and Eastern astrology and numerology. Also, tells you if you and your mate are compatible! See *Astrology and Fortune Telling.*
(PC-SIG Disk# 1054)

ProDex Plus A memory-resident combination of telephone directory, report log, and to-do schedule. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1248)

Production Control Schedule A scheduling and planning program for your business. The calendar is changeable and remembers holidays and company-relevant dates. See *Project Management.*
(PC-SIG Disk# 1244)

Professional Real Estate Analyst A series of Lotus 1-2-3 programmed templates for performing many real estate analyses and projections. See *Real Estate and Property Management.*
(PC-SIG Disk# 923)

Profile Print mailing labels, perform mail-merge with popular databases, and analyze your customer base and mailing patterns — all with PROFILE. See *Databases.*
(PC-SIG Disk#'s 1002, 1003)

Profit and Loss Statements See *Accounting, G/L, A/P, A/R, Payroll.*

ProFonEdit Plus — Procomm Plus Directory Editor Edit entire blocks of your Procomm telephone directory with this dedicated editor. See *Communication Programs.*
(PC-SIG Disk# 956)

Program A series of statements and instructions which direct a computer to carry out a task.

Program Generators See *Programming, (Specific Language).*

Program Grab Bag Your victim touches his keyboard and his computer seemingly fills with water and starts a spin cycle! Conversion calculators, coder/decoders, and other utilities share space with PC practical jokes. See *Practical Jokes*.
(PC-SIG Disk# 1314)

Programming, Assembly

■ A86/D86 Assembler/DBugger

A86 is an excellent assembler that actually performs better and is easier to use than Microsoft's MASM 4.00. It also assembles your programs a lot faster than MASM. It lets you leave out all segmentation directives, if you want. The segmentation default model is compatible with most high-level languages. You can also access subroutines from your own libraries and, if you register, you receive the A86LIB tool for creating your own libraries more easily than with MASM. You can use floating point operands in assembly-time expression arithmetic. This is an A86 exclusive.

The manual (included on the disk) is excellent. You can learn 8086 or 80286 Assembly language programming with it. The debugger is great. It has a floating point display window for use with the 8087 or 80287 that will knock your socks off.

(PC-SIG Disk# 1111)

Special Requirements: *Hard drive.*
Author Registration: *$40.00 each.*
➤ ***ASP member.***

■ Assembly Utilities

A variety of Assembly language programs gathered for the convenience of the programmer. Source code is in Assembly language. Many routines improve handling of screens, disks, and printers. See file descriptions for a real appreciation of the breadth of this collection.

(PC-SIG Disk# 309)

Special Requirements: *An Assembler.*
Author Registration: *None.*

File Descriptions:

ASM	TXT	2 tips from Boca Raton.
BEEP	ASM	Sound effect generator.
CLEAR	ASM	Sample clear screen routine from CHASM.
CLOCK	ASM	Print date and time on screen.
CLOCK	DOC	Documentation for CLOCK.
CO	DOC	Documentation for COENDP and COPRNT.
COENDP	ASM	Part of program to list disk contents.
COPRNT	ASM	Part of program to list disk contents.
DISASM	BAS	A BASIC program that disassembles assembly programs.
DISKDIRL	ASM	Part of program to list disk contents.
DISPTEXT	ASM	Displays a line on screen without BIOS.
DOS-EDIT	ASM	Assembly language text editor.
DOSERROR	DOC	Lists error return codes.
DSK	ASM	Returns the number of free sectors on a disk.
FREE	ASM	Shows available free space on a disk.
FREE	DOC	Documentation for FREE.
GETSP	ASM	Lists free space on disk.
INIT	ASM	Assembly Source Code..
INITMEM	ASM	Initializes memory between 544k and 576k.
LIB	EXE	Sub-program.
LIST80	ASM	Lists the first 80 characters in a line of ASCII text.
MEMDRV	ASM	Faster bootup and use ALL of your available memory.
MEMDRV	DOC	Documents MEMDRV.
MORERAM	ASM	Use all of available RAM.
NOLF	ASM	Deletes extra linefeeds from some printer files.
OBJSNOOP	COM	Displays label references in object files.
OPCODE	DOC	Used by DISASM.BAS.
OPCODE	TXT	Used by DISASM.BAS.

PAGE	ASM	Demonstrates multiple screen pages.
PARTBIOS	LIS	Partial listing of BIOS low memory.
PASSWORD	ASM	Password protection of system.
PRTPATH	ASM	Prints current directory path.
PUT_DEC	ASM	Puts decimal point in ASCII string.
PUT_DEC	OBJ	Object code for PUT_DEC.
ROMBIOS	ASM	ROM BIOS information.
SCRN	ASM	A variable time screen saver.
SCRN	DOC	Documentation for SCRN.ASM.
SCROLL10	ASM	Tests DISPTEXT.
SKELETON	ASM	Skeleton of a minimal Assembly language program.
SL	ASM	Tests program that scrolls screen.
SPEDUPDK	ASM	Changes some disk drive parameters.
TABS	ASM	Replaces blanks with tabs in ASCII text files.
TALK1	ASM	Dumb terminal for IBM PC.
TEXT	DOC	Documentation for TEXT.EXE.
TEXT	EXE	Several text conversion options.
UPDIR	ASM	Moves the user up one directory level.
UPPATCH	ASM	Patch of another program.

■ CHASM

CHASM (Cheap Assembler) is a prime weapon for programmers who want to learn to program in Assembly language. The program comes with clearly-written documentation and has a tutorial built-in for users lacking detailed experience with Assembly language.

CHASM is a compiler only, and there is no editor included. You use an ASCII word processor to create your source code file, then use CHASM to compile it.

(PC-SIG Disk# 10)

Special Requirements: *Two floppy drives.*

Author Registration: *$40.00*

User Comments: *"A very good assembler." "It's very useful and has great documentation."*

■ PC/370 Cross-Assembler

PC/370 is a cross-assembler that lets you compile and run IBM 370 Assembly language programs on a PC, XT, or AT.

These programs are well-documented with a good demonstration program. This is one of the most complete emulations of the VM370 assembler around. A generous debugging and erase facility is also included to help you complete development cycles without the big blue box.

Features included:

- PC/370 assembler subroutines can be called from Micro Focus COBAL/2 programs, running either in extended memory-protected mode or normal MS-DOS real mode. Standard linkage conventions are supported.
- PC/370 run-time emulator can be made resident to eliminate loading it for each program or subroutine execution. As part of making the emulator reusable, debug supports restoring traces
- Hardware assist is available for the CVB and CVD 370 instructions, using the math coprocessor to speed up the instructions by a factor of four
- Two new supervisor calls are included: SVC 36 will load into a predefined area of memory (useful for overlays); SVC 37 defines user SVC exits for modifying native SVC support without requiring an emulated interrupt- driven shell
- The cross assembler supports the copy statement to include source code files
- The linkage editor supports option U to allow external unresolved references

(PC-SIG Disk#'s 402, 859, 1352)

Special Requirements: *None.*

Author Registration: *$45.00*

➤***ASP member.***

■ PseudoSam 18 and 65

PSEUDOSAM 18 and 65 are machine language cross-assembler programs for the RCA 1802, 4, 5, 6, and 6502 microprocessors. These programs let you construct 1802 and 6502 code on your IBM PC, to be transferred to an 1802- or 6502-based system for use.

The PSEUDOSAM (Pseudo brand Symbolic AsseMbler) assemblers conform to common syntax, based on the UNIX system V assembler syntax. The opcode and addressing syntax is compatible with the manufacturer's, but label, directive, and expression operator syntax will differ.

The author of PSEUDOSAM chose this syntax because of UNIX's popularity, and to avoid the problem of maintaining compatibility with the many OEM assemblers. The documentation is well-organized and easy to understand, although no attempt is made to teach 1802 or 6502 programming. You should have a good understanding of machine language programming and also be familiar with basic DOS functions.

(PC-SIG Disk# 776)

Special Requirements: *None.*
Author Registration: *$30.00 personal and $100.00 commercial.*

■ PseudoSam 48 and 51

PSEUDOSAM 48 and 51 are machine language cross-assembler programs for the INTEL 8748 and INTEL 8751 microprocessors. These programs let you construct 8748 and 8751 code on your IBM PC, to be transferred to an 8748- or 8751-based system for use.

The PSEUDOSAM (Pseudo brand Symbolic AsseMbler) assemblers conform to common syntax, based on the UNIX System V assembler syntax. The opcode and addressing syntax is compatible with the manufacturer's, but label, directive, and expression operator syntax will differ.

The author of PSEUDOSAM chose this syntax because of UNIX's popularity, and to avoid the problem of maintaining compatibility with the many OEM assemblers. The documentation is well-organized and easy to understand, although no attempt is made to teach 8748 or 8751 programming. You should have a good understanding of machine language programming and also be familiar with basic DOS functions.

(PC-SIG Disk# 777)

Special Requirements: *None.*
Author Registration: *$30.00 personal and $100.00 commercial.*

■ PseudoSam 68 and 685

PSEUDOSAM 68 and 685 are machine language cross-assembler programs for the Motorola 6800, 01, 02, 03, 08, and 6805 microprocessors. These programs let you construct 6800 and 6805 code on your IBM-PC so it can be transferred to a 6800- or 6805-based system for later use.

The PSEUDOSAM (Pseudo-brand Symbolic AsseMbler) assemblers conform to common syntax, based on the UNIX System V assembler syntax. The opcode and addressing syntax is compatible with the manufacturer's, but label, directive, and expression operator syntax will differ.

The author of PSEUDOSAM chose this syntax because of UNIX's popularity, and to avoid the problem of maintaining compatibility with the many of OEM assemblers. The documentation is well-organized and easy to understand, although no attempt is made to teach 6800 or 6805 programming. The user should have a good understanding of machine language programming and also be familiar with basic DOS functions.

(PC-SIG Disk# 775)

Special Requirements: *None.*
Author Registration: *$30.00 personal and $100.00 commercial*

■ PseudoSam 80z and 85

PSEUDOSAM 80z and 85 are machine language cross-assembler programs for the ZILOG z80, NATIONAL SEMICONDUCTOR NSC800, and the INTEL 8085 microprocessors. These programs let you construct 80z and 8085 code on your IBM PC, to be transferred to an 80z or 8085-based system for use.

The PSEUDOSAM (Pseudo-brand Symbolic AsseMbler) assemblers conform to common syntax, based on the UNIX System V assembler syntax. The opcode and addressing syntax is compatible with the manufacturer's, but label, directive, and expression operator syntax will differ.

The author of PSEUDOSAM chose this syntax because of UNIX's popularity, and to avoid the problem of maintaining compatibility with the many OEM assemblers. The documentation is well-organized and easy to

understand, although no attempt is made to teach 80z or 8085 programming. You should have a good understanding of machine language programming and also be familiar with basic DOS functions.

(PC-SIG Disk# 778)

Special Requirements: *None.*

Author Registration: *$30.00 personal and $100.00 commercial*

■ TASM

TASM is an assembler that runs on an IBM-PC/XT/AT or compatible and creates codes for any of the following 8-bit processors: 8048, 8051, 8085, Z80, 6805, or 6502.

Features of TASM include: 17 operators for expression parsing, support of a subset of C preprocessor commands, macros, multiple statements per line, support of three object file formats, only absolute code generation, uniform syntax across versions, and support for PROM programming. The source code is available. Customize TASM to produce codes for other processors by creating a proper instruction definition table for the target chip.

(PC-SIG Disk# 643)

Special Requirements: *None.*

Author Registration: *$30.00*

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Programming, BASIC

■ BASIC Games

Most of the games presented here are written in BASIC and represent an excellent example of game functions for the student programmer in BASIC to study. Most use ASCII graphics, so you can use any monitor.

(PC-SIG Disk# 174)

Special Requirements: *A version of BASIC. Some programs may require CGA.*

Author Registration: *None.*

■ BASIC Games & Programming Intro

This is a handy and interesting tool for getting acquainted with the world of microcomputers and programming.

It has an easily-understood tutorial on computers and does a good job on BASIC — introducing the beginner to the elemental concepts of the language. A big plus is a series of practice sessions so you can actually see the programs operate!

A set of simple games are included that will engage you in a lot of keyboard practice. They include a simple word processor and several number games, as well as varying levels of anagrams.

(PC-SIG Disk# 595)

Special Requirements: *A version of BASIC.*

Author Registration: *None.*

■ BASIC Language Games

A wide-ranging example of "games that were." If you're interested in BASIC programming, this could be an interesting set of programs to analyze. You might want to find out how to do a certain procedure, or adapt a given procedure to your own BASIC project. You'll find ample and diverse examples of game procedures in this package.

There are several educational games on this disk, plus a couple that will still keep you guessing. However, the games on this list are essentially out of date now, and, given the advances in programming over the years, there are many more up-to-date variations on the themes available in the PC-SIG library.

(PC-SIG Disk# 45)

Special Requirements: *Some programs may require CGA and a version of BASIC.*

Author Registration: *None.*

File Descriptions:

MINIMATH	BAS	BASIC math program.
BACCRRT	BAS	BASIC card program.
ANTONYMS	BAS	Learn your antonyms.
AWARI	BAS	Classic African sticks and stones.
BACCRRT	BAS	Card game.
SYNONYMS	BAS	Learn your synonyms.
TAXMAN	BAS	Beat the taxman.
WEATHER	BAS	Predict the weather.
TRADE	BAS	Intergalactic trading game.
GALAXY	BAS	Behold the stars.
FOOTBALL	BAS	Football simulation.
BASEBALL	BAS	Baseball game.
IQUEEN	BAS	Problem solving with chess pieces.
HIDESEEK	BAS	Search for hidden objects.
GREEKRTS	BAS	Match Greek words with their meaning.
GALAXY2	BAS	Behold the stars and be inspired.
DRAGRACE	BAS	Race the circuit.
DOTS	BAS	Connect the dots and make a picture.
CLOUD-9	BAS	Educational game.
BIO	BAS	Biorythms for printer.
CLIMATES	BAS	Educational game.
CIVILWAR	BAS	The blue against grey.
BOMB	BAS	Find the bomb.
BIRTHDAY	BAS	Find the day of the week you were born.
MEMBRAIN	BAS	Keep cells alive.
SHOP	BAS	Go shopping.
REVERSE	BAS	Arrange the numbers correctly.
SNOOPY	BAS	Print Snoopy on printer.
SQUARE	BAS	Competitive square building.
SWARMS	BAS	You are attacked by bees.

■ *BASIC Programs in Finance and Inventory*

The financial portion of this disk has 20 useful, easy-to-use progams, including such handy routines as loan amortization, asset depreciation, and bond yield. The inventory portion of this disk is well-documented and includes routines to take cash register input data, generate pick lists, and report inventory.

The package also represents a wide range of excellent adoptable or adaptable applications of BASIC source code for financial functions for anyone studying the BASIC programming language.

(PC-SIG Disk# 171)

Special Requirements: *A version of BASIC.*
Author Registration: *None.*

■ *BASIC Programs in Math and Statistics*

This collection of math and financial analytical tools, intended for the professional, student, or anyone interested in math or statistics, represents an outstanding "living laboratory" for studying applied BASIC source code in those areas of endeavor. A great opportunity to take it apart and see what makes it tick.

(PC-SIG Disk# 180)

Special Requirements: *A version of BASIC.*
Author Registration: *None.*

File Descriptions:

M1	BAS	Greatest common denominator.
M2	BAS	Prime factors of integers.
M4	BAS	Analysis of two vectors.
M3	BAS	Area of polygon.
M5	BAS	Parts of a triangle.
M6	BAS	Operations on two vectors.
M7	BAS	Coordinate conversion.
M8	BAS	Coordinate plot.
M10	BAS	Plot of polar equation.
M9	BAS	Angle conversion.

M12	BAS	Linear interpolation.
M11	BAS	Plot of function.
M14	BAS	Integration: Simpson's rule.
M13	BAS	Curvilinear interpolation.
M18	BAS	Roots of quadratic equation.
M16	BAS	Integration: Trapezoidal rule.
M17	BAS	Derivative.
M15	BAS	Integration: Gaussian quadrature.
M26	BAS	Matrix inversion.
M25	BAS	Matrix multiplication.
M24	BAS	Matrix add, subtract and scalar multiplication.
M23	BAS	Linear programming.
M22	BAS	Simultaneous equations.
M21	BAS	Trig polynomial.
M20	BAS	Roots of polynomials: half interval sear.
M19	BAS	Real roots of polynomials: Newton.
MATH	BAS	Menu for above math programs.
NCCLSPRE	BAS	Calculates a sample's precision.
MATRIX	BAS	Solves simultaneous equations.
S2	BAS	Mann-Whitney U test.
S1	BAS	Permutations and combinations.
REGRESS	BAS	Regression analysis.
NORMAL-Z	BAS	Normal distribution routines.
S6	BAS	Normal distribution.
S5	BAS	Poisson distribution.
S4	BAS	Binomial distribution.
S3	BAS	Geometric mean and deviation.
S8	BAS	Chi-square test.
S7	BAS	Chi-square distribution.
S10	BAS	Student's T test.
S9	BAS	Student's T distribution.
S12	BAS	Linear correlation coefficient.
S11	BAS	F-distribution.
S16	BAS	Geometric regression.
S15	BAS	Nth order regression.
S14	BAS	Linear regression.
S13	BAS	Multiple linear regression.
S17	BAS	Exponential regression.
S18	BAS	Mean, variance, standard deviation.
STAT	BAS	Menu for above S**.BAS statistics programs.

■ *Basic Windowing Toolbox For BASIC Programmers*

BASIC WINDOWING TOOLBOX (B-WINDOW) is a collection of functions that give windowing capability to a BASIC programmer. Windows can be opened over sections of the screen and, when closed, the overwritten section of the screen is restored. With B-WINDOW, BASIC programs look more visually exciting and professional. B-WINDOW works with both compiled and interpreted BASIC. Special windowing cursor control and string character display, and border drawing are included. Everything happens at top speed because B-WINDOW was written in C, converted to assembler, and hand-optimized.

(PC-SIG Disk# 527)

Special Requirements: *None.*
Author Registration: *$20.00*

■ *BASICXREF*

The BASIC CROSS REFERENCE UTILITY is for the serious BASIC programmer. It helps in the programming and debugging of BASIC source language programs by building a complete cross-reference of all variables.

The utility provides lists of the following: all line numbers, showing all references by other statements; an alphabetic listing of all reserved words and line numbers where they appear; an alphabetic listing of all variables that are not reserved; and a listing of the BASIC source, which might include both numbered and un-numbered statements. You can remove unreferenced statement numbers from compiled programs, remove REM statements from the source code, and unprotect source programs saved as protected programs.

(PC-SIG Disk# 358)
Special Requirements: *None.*
Author Registration: *$25.00*

■ Baslin

BASIC LINE NUMBERING removes unreferenced line numbers from — or adds line numbers to — BASIC programs saved in an ASCII format.

You can delete line numbers, use an ASCII editor to move sections of a code, and then add line numbers to produce a usable interpreted BASIC code. Add line numbers to a BASIC file while leaving any existing line numbers unchanged and add new numbers to unnumbered lines in the same way as existing line numbers. Line numbers can be added to a file written in compiler BASIC for debugging purposes. Switch easily between interpreters that require line numbers and compilers that do not require line numbers.
(PC-SIG Disk# 989)
Special Requirements: *A version of BASIC.*
Author Registration: *$9.99*

■ BetaTool's BASIC Development System

A completely functional version of BetaTool's BASIC Development System for programs of less than 6500 bytes. BetaTool's system works with the BASIC interpreter to add easy file editing, instant cross-reference lists, selective line renumbering, variable dump and program expand/compress. If you program in BASIC, you should try this package.

System Requirements: A version of BASIC.

How to Start: Type MANUAL (press enter).

Suggested Registration: $99.00

(PC-SIG Disk# 269)

■ Designer, The

THE DESIGNER is a programming tool for IBM BASIC users working with animated graphics. The source code in BASICA for each of the example programs is included, for study or modification by anyone who wants to write graphics games or experiment with animation. At least a beginning knowledge of programming and the BASIC language are recommended for using this package. It cannot use a mouse or joystick.

Features:

- Full PC function key use to control programming functions
- On-line help
- Printable reference card

(PC-SIG Disk# 69)
Special Requirements: *A version of BASIC and CGA.*
Author Registration: *$20.00*

■ Finance Calculator

This excellent set of financial programs has a dual thrust. Programs can be run for their various financial purposes or they can be of great interest to a BASIC programmer interested in analyzing the minutiae of how to program a specific financial function.

The entire package is fairly straightforward and without bells and whistles. Just simple basic programs that get the job done.

(PC-SIG Disk# 29)
Special Requirements: *A version of BASIC.*
Author Registration: *None.*

■ Funky ToolBox

FUNKY TOOLBOX (function key toolbox) contains a large number of utilities for the programmer in you. Along with the utilities are a lot of miscellaneous BASIC programs and text files, to be used as examples for doing a specific programming procedure, or even used as subroutines within a program you are creating. See file

descriptions for explanations of individual programs.

(PC-SIG Disk# 907)

Special Requirements: *A version of BASIC.*

Author Registration: *$45.00*

File Descriptions:

AINK$	TBX	Controls KYBD for opening files correctly.
ANYKEY	TBX	Advanced routine for any key to continue.
ARAYCOMP	TBX	Compute ARRAY size overhead in DEFSNG-DEFDBL-DEFSTR.
ALLCHARS	TBX	Displays a hexadecimal table of all screen characters.
ASCKEY$	TBX	ASCII Numbers for all keys.
AUREVOIR	TBX	Flashing panels say a big good-bye.
BLACKOUT	TBX	Example of a screen black-out.
SOUNDZ	TBX	Unusual sounds and musical effects.
SONGRITR	TBX	Easy music from score to CPU.
NICELEGS	TBX	How to make legs for your printer.
BANANA2	TBX	Error-trapping alternative.
BANANA1	TBX	Error-trapping ON-OFF routine.
ERROR2	TBX	Tough tests CPU for accuracy.
ERROR1	TBX	Fun tests the IBM-PC CPU for accuracy.
TESTEROR	TBX	Error-trapping demo.
COLRTOGL	TBX	Switches between mono and color.
LOKATE	TBX	Flashes screen address and points location.
SCRNMAP	TBX	Creates a map of the computer screen.
MARKSCRN	TBX	Roadmap your display for convenience.
FLIPPIES	TBX	How to use both sides of your disks.
INDEX1	BAS	Index on the files on this disk.
ABSECTOR	TBX	Converts track-sector to absolute sector for DEBUG use.
DEBUG	DOC	How to use DEBUG and error trapping.
GSBMUSIC	TBX	Background music for your programs.
GOBANANA	DOC	How to error-trap your programs.
PEEKFILE	DOC	How to peek into files and ROM with DEBUG.
HORNBOOK	DOC	Information on DOS for programmers.
ERORNUM	DAT	Data file for ERRMESAG.TBX.
ERRMESAG	TBX	Shows ERROR messages.
CURSER	TBX	Demo of CRSLIN and POS(0) for bookmarking.
INDEX2	BAS	Index of the files on this disk.
LETTER	BAS	A letter from PeopleSystems.
TALKPAGE	BAS	Why talking pages make reading easier.
BROWSE	COM	Utility for viewing text files.
STUFCHIP	DOC	How to protect your chips.
DOLABEL	TBX	Self-producing label program. Uses printer, but no labels.
DISKLABL	TBX	Label your disks with wide Directory. No labels needed.
PEOPLSYS	TBX	Big screen opening and closing. Chains to AUREVOIR.TBX.
INPUTEST	TBX	Trap KYBD entry with easy INSTR routine.
NOTENUMB	TBX	Makes octave shifts easy.
F5ERRMSG	TBX	Print out error messages by pressing F5.
README		How to get started.
WHATISPS	DOC	Information on PeopleSystems.
SOFTKEYS	TBX	Loads new F keys for color/mono then erases program.
WPROT	TBX	How to unprotect a file to list and save it.
MACHLANG	TBX	Using poke and machine language complete easy computation.
HEXSCALE	TBX	Graphics for addressing-nibbles-bytes-segment: offset.
FUNCTKEY	TBX	How to use your function keys.
MEMTEST1	TBX	Tests your computer memory.
COLORBOX	TBX	Displays various colored boxes.
MONO	BAS	Separate subroutine to run mono.
COLOR	BAS	Separate subroutine to run color.
COMO	TBX	Merge this color/mono subroutine into your program.
IBMKEYS	TBX	Reloads the F1 to F10 keys the way they were.
README2	DOC	Information on PeopleSystems.
HEX2DEC	TBX	Automatically convert any HEX address to decimal numbers.
SCRNCHRS	TBX	Now see all screen chars, some unmentionables.
BASUNPRO	TBX	Create machine language to unprotect files.
SAVEDLIN	TBX	Recovers lost EDLIN file when disk is full.

PROTECTD	TBX	A protected file for you to practice on.
PEPLSYST	BAS	The system of people and computers.
DAMNTRIV	DOC	Information on PeopleSystems.
FRIENDLY	TBX	How to be friendly.
CLUSECTR	TBX	DOS 2.0 conversion of start cluster to absolute sector.
SENSITIV	DOC	How to work with people.
DISKMOD	DOC	How to modify a disk with DEBUG.
BOOBOO	DOC	Improvement for the IBM-PC.
XMASTREE	TBX	Mono graphics and music for the season.

■ *Managing Your Money*

All the BASIC programs in the book "Managing Money With Your IBM PC," by A. Glazer, an economics professor at the University of California. (Prentice-Hall, 1985).

Among other things, you can determine the after-tax cost of a loan, demonstrate the advantages of an Individual Retirement Account, compare loans which have different interest rates and different origination fees, and calculate the amount of monthly savings necessary to finance a college education. Many different types of loans are also well-demonstrated and made easier to understand.

Includes BASIC source code. Anyone interested in short, useful investment calculation programs, with the source code, will find this package very valuable.

(PC-SIG Disk# 613)

Special Requirements: *CGA and a version of BASIC.*
Author Registration: *$10.00*

File Descriptions:

AMORTIZE	BAS	Amortization schedule for a mortgage loan payment.
TERMDEPO	BAS	Balance in a savings plan any number of years.
SIMPINV	BAS	Analysis of an investment that produces no annual income.
SAVHISTO	BAS	Annual balance in a savings program with deposits.
RULEOF78	BAS	Amortization schedule for consumer and automobile loans.
README		General information and file information.
POINTS	BAS	Effective interest rate on a loan that charges points.
BALREM	BAS	Balance remaining on a mortgage.
CREDITCA	BAS	Gains from using a credit card instead of paying cash.
CHARGEHI	BAS	Monthly status of a revolving charge account.
PERTERM	BAS	How many deposits to make to reach a goal.
PERRATE	BAS	Interest rate to earn on your savings to reach goal.
PERDEPOS	BAS	How much to deposit each month or year to reach goal.
PERBALAN	BAS	Balance in savings account after any number of deposits.
PAYBACK	BAS	How long it takes to recover an investment.
CREDITPU	BAS	Minimum payment schedule for a credit purchase.
NUMDAYS	BAS	Number of days between two dates.
DAILYODO	BAS	Date that is a specified number of days away.
MONTHLYO	BAS	Date that is a specified number of months away.
MNTHINCM	BAS	Monthly income obtained from a specified amount of money.
LOANTERM	BAS	How many payments you must make on a loan.
LOANQUAL	BAS	Size of loan at interest rate and monthly payment.
LOANCOST	BAS	After tax cost of a loan.
IRA BAS		The benefits of saving in an IRA.
INVYIELD	BAS	Annual rate of return on an investment.
INVVALUE	BAS	Present value of an investment.
INVPRICE	BAS	Sales price of an asset that yields a specified ROR.
INVINCOM	BAS	Annual or monthly income that yields a specified ROR.
INVHISTO	BAS	Annual description of an investment; value, ROR.
INTRATE	BAS	Interest rate on a loan.
DEPGROWS	BAS	Balance in a savings program with deposits.
DAYOFWEE	BAS	Day of week on which a specified date falls.
DATESINM	BAS	Dates in a month which a specified day of the week falls.
DATEDIST	BAS	Number of years, months, and days between two dates.

User Comments: *"A great collection to figure a large variety of financial situations."*

■ PC-Professor

PC-PROFESSOR is a popular tutorial for teaching the BASIC programming language. It has an easy-to-understand, well-organized presentation and a comprehensive keyboard tutorial, although it is not overly interactive. The program also offers four chapters of indexed documentation for quick-referencing capability. It might be helpful to have at least a basic knowledge of BASIC before using this tutorial, but it is primarily for beginning programmers.

(PC-SIG Disk# 105)

Special Requirements: *A version of BASIC.*
Author Registration: *$30.00 to $50.00*

User Comments: *"Painless, handy way to inch up the learning curve." "I am wading through the tutorial and it has a good introduction to beginning programming." "Useful, pleasant way to learn about computers. Step-by-step screens for beginners. It gave a good understanding of BASIC for a beginner, easy to understand and access." "One-touch menu format makes learning BASIC a pleasure. Used by the local high school teacher as a teaching aid."*

■ PC-Talk III

This early-days telecommunications program (the first shareware program ever) is as straightforward and unfancy (by today's standards) as they come. Nevertheless, it can keep phone number records, dial them for you, and generally perform the connection functions you need to tie your computer to another through a modem over phone lines. If your interests lean toward programming, all of the programs on this disk provide great examples of BASIC applications. Something for beginning programmers to dig into!

(PC-SIG Disk# 16)

Special Requirements: *A version of BASIC and modem.*
Author Registration: *No longer supported as shareware.*

■ Sounds in BASIC

SOUNDS is BASICally just good fun. It is a collection of routines written in BASIC that produce sounds ranging from TA-DAH to exploding bombs. Actually, since the routines produce no graphics — nothing on the screen at all — they work best with another, probably fun, project. A little something to add that "extra" touch.

On the other hand, SOUNDS represents an excellent study tool for the BASIC programmer looking to determine the details of a given sound routine.

(PC-SIG Disk# 53)

Special Requirements: *A version of BASIC.*
Author Registration: *None.*

■ Structured Programming Language

The STRUCTURED PROGRAMMING LANGUAGE (SPL) is a hybrid of structured BASIC, with its easy-to-use commands, and a Pascal-styled architecture.

This compiler takes an input source code and produces an ASCII file that can be executed in BASIC or compiled using the BASIC compiler. SPL has powerful commands that let you build procedures, functions, and structured programming blocks which are enclosed by BEGIN and END statements. SPL has graphics ability, mathematical operators, strong string-manipulation commands, and the ability to handle arrays and disk input and output routines.

It offers a way to create structured programs with a fair amount of ease, although it is not intended for the novice computer user. SPL comes with a user's manual, which has an error code list as well as a feature index.

(PC-SIG Disk# 666)

Special Requirements: *Hard drive and a version of BASIC.*
Author Registration: *$50.00 to $100.00*

■ VRef

BASIC programmers — VREF (Variables Cross-Reference) is a programming utility which will show all lines where a specific variable is located in a BASIC program.

VXREF works with all BASIC programs written in GW/PC BASIC or BASICA and saved in an ASCII format. It can distinguish between variables and arrays of the same name and will ignore type declarations and system variables. Each occurrence of a variable in a line is mentioned once. The list may be printed on a printer or saved to a disk file.

(PC-SIG Disk# 875)

Special Requirements: *None.*
Author Registration: *$5.00*

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Programming, C

■ C Adventure

A classic Dungeons and Dragons text adventure game. Go into the cave and gather as much treasure as possible without getting dismembered, eaten, or otherwise maimed. And, of course, escape with your loot!

Since the C source code is included, the game players can explore and the hackers can change things to suit themselves. Features a good English language parser. Games can be saved in progress and restored for later playing.

(PC-SIG Disk# 259)

Special Requirements: *None.*
Author Registration: *None.*
User Comments: *"Lots of fun. The children love it."*

■ C TUTOR

C TUTOR is a comprehensive instructional course for the C programming language which assumes the user has a moderate amount of programming experience.

The C source code is included for each of several examples discussed throughout the tutorial. These examples are meant to be studied and then compiled and run by the student. The examples are short and focus on specific topics.

All of the points of C language, including properly-structured programming techniques, are covered at the elementary level. The description and instruction are applicable to most compilers, with some slight differences.

(PC-SIG Disk#'s 577, 578)

Special Requirements: *None.*
Author Registration: *$15.00 to $39.95*
User Comments: *"Super tutorial. Examples are good."*

■ C Utilities, Volume 2

This hard-working, time-saving set of utilities and functions for the C programmer includes many screen-handling routines to draw boxes, clear lines, move the cursor, etc. Some DOS interfaces let you access DOS time (to hundredths), convert date formats, interface with BIOS, and more. If you'd like some help with your own programming projects, or only want to investigate how others have done the job, be sure to check out this one!

(PC-SIG Disk# 216)

Special Requirements: *None.*
Author Registration: *None.*
File Descriptions:

README	DOC	Notes about programs on this disk.
READS	C	Reads string from stdin.
WEEKDAY	C	Gives the day of week a given Gregorian date.
SCRATT	C	Toggles screen attributes (ie BOLD, blink, reverse video).
SCRINIT	C	Initializes screen and keyboard arrays.
JTOJ	C	Returns Julian day from date in form (yddd).
DOSDATE	ASM	Returns DOS month, day, year as integers.
JTOG	C	Function to convert Julian date to Gregorian date.

ELINE	C	Function to erase line of screen.
CHOSIT	C	Displays menu, prompt for a response and validate.
SCONTROL	H	Header file used by screen and keyboard control library.
FRAME	C	Function to draw box given two corners.
CURSOR	C	Function to move cursor to a specific r,c position.
GTOJ	C	Converts Gregorian date to Julian date.
CVTDATE	C	Unpacks Gregorian date (1/1/84) to (01/01/84).
GETLINE	C	Read record from file to string.
CURDOWN	C	Function to move curser down y relative lines.
GETDATE	C	Gets date in string form MM/DD/YY.
GETTIME	C	Gets time in form HH:MM:SS (24 hour clock).
DOSTIME	ASM	Gives DOS time in hours, minutes, seconds, 1/100 seconds.
ESCREEN	C	Function to erase line from screen.
CURUP	C	Mover cursor up y lines.
PAUSE	C	Pauses a program for period of time.
CURBACK	C	Move cursor back x columns.
CURFOR	C	Move cursor forward x columns.
BIOSIO	ASM	Assembly routines which interface directly with BIOS.
READC	C	Function to read string from stdin.
WRITES	C	Function to write string to stdout.
WRITEC	C	Function to write character to screen using DOS function.
COMM	MNU	Menu for communications program.
MENCON	C	Function to open menu file and display it on screen.
???	BAT	Batch files to emulate UNIX commands (9 files).
IBMTTY	C	Terminal emulation program with file upload & download.

■ C-Window Toolkit

C-WNDW TOOLKIT is designed for both novice and intermediate C programmers who want full screen, color, cursor control, and windowing abilities without programming complex escape sequences or DOS-level interrupts. It's also designed for experienced programmers who need a set of fast I/O windowing and disk access functions. A full set of file access functions are given that trap and handle all usual errors. Access is supported to ASCII, dBase III+, hashed random, and relative files.

C-WNDW TOOLKIT provides input and output windowing abilities that operate at professional speeds. The output windowing facilities use memory mapping for instant screen display. They take full advantage of color monitors, and provide automatic editing of entry and output fields. Pull-down and pop-up menu functions, help screens, and multi-layered windows provide a sophisticated user interface.

(PC-SIG Disk# 1007)

Special Requirements: *A version of the C programming language.*

Author Registration: *$35.00*

■ Elementary C

Are you just learning how to program in C? Or have you been doing it for a while? This collection of C language routines has something for both of you.

They can help you learn the language and also provide a shortcut library for more experienced users. Included are some basic data movement routines, a help facility, amortization programs, and matrix manipulation. A short but succinct example shows how to initialize a Hayes smartmodem with Lattice C. An entire set of functions is provided for string-processing of a list of arguments, with an example showing how to use these functions for command tail processing.

Take advantage of the edge you can find here and save yourself time and trouble with this variety of tools.

(PC-SIG Disk# 429)

Special Requirements: *None.*

Author Registration: *None.*

■ Extlib

EXTLIB is a library of over 50 C run-time video routines for the advanced MS-DOS C programmer.

It features windows, pop-up and pull-down menus, menu bars, scroll bars, direct video memory I/O, and cursor control routines to be used with Microsoft C or QuickC. In addition to these video routines, there are formatted display input routines (dollars, for instance) and advanced error handling functions. The small, medium, compact,

and large memory models are all supported. EXTLIB also comes with the floating point emulator or 80x87 packages.

(PC-SIG Disk# 1324)

Special Requirements: *Microsoft C or Quick C.*
Author Registration: *$20.00*

■ Indent

INDENT is a C program formatter that reformats any C program in the input file according to the switches or command options. Make your source code more readable and appear in an acceptable format. The C source code for the main program is included so you can modify it to fit your exact needs.

(PC-SIG Disk# 962)

Special Requirements: *320K RAM.*
Author Registration: *None.*

■ PC GRAPHICS C

PC GRAPHICS is not just for HP BASIC types who need to port code to the IBM-PC. These software tools provide an intuitive and powerful method for graphics programming that makes up for shortcomings in the standard Microsoft C library.

PC GRAPHICS is a subset of the library primitives available in Hewlett-Packard workstation BASIC. Here are procedures for soft-clipping, scaling, line patterns, pen colors, and text rotation that let you write two-dimensional graph plotting programs in Microsoft C. The scaling feature is especially useful as it lets you create your own scale, removing the need to think in pixels. The package can also be used for simple animation.

(PC-SIG Disk# 1433)

Special Requirements: *CGA and Microsoft C, version 5.0.*
Author Registration: *None.*

■ PCC Personal C Compiler

The PERSONAL C COMPILER (PCC) is a fast and compact C compiler package with a lot of power.

PCC builds "small model" only: 64K of code, 64K data (which can be bypassed), and 64K stack executables from Kernigan and Ritchie standard C language source. It comes with compiler, Assembler, linker, library utility, standard library, debugger, editor, and includes sample files. PCC is not a bare-bones system; it supports overlays, has an 8087 library, a library of supplemental screen I/O routines, and a special data type to break the 64K limit. The documentation is indexed, very complete and is a good learning tool for the beginning C programmer.

Most importantly, PCC produces small and efficient code very quickly, and even though it is not a fancy "optimizing" compiler with lots of bells and whistles, it's all a true programmer really needs.

NOTE: The librarian and the Xarray memory capability are not included with shareware version.

(PC-SIG Disk# 1337)

Special Requirements: *None.*
Author Registration: *$30.00*

■ SDB

SDB is a relational database system written in the C programming language. SDB is a simple database manager developed to provide a relatively low overhead system for storing data on machines with limited disk and memory resources.

While it performs very well as a somewhat limited database, the program has the source code in the C language included. This represents opportunities for programmers to get a look at how the functions have been constructed.

(PC-SIG Disk# 147)

Special Requirements: *None.*
Author Registration: *None.*

■ Turbo C Tutorial

If you are a programmer in C or other programming languages and have been thinking about moving up to Turbo C, TURBO C TUTORIAL can help open the door.

TURBO C TUTORIAL will teach you the basic structure of the C language. Turbo C is not really a beginner's language; the author assumes you are familiar with some other programming languages but know nothing about C. The tutorial starts by explaining the C language; by the time you have completed the lessons you should be very familiar with Turbo C.

Included are over 60 C source code files, which are to be used with the tutorial.

(PC-SIG Disk#'s 816, 817)

Special Requirements: *Printer.*

Author Registration: *$10.00*

User Comments: *"An all round excellent program for anyone wanting to know about C language. Comprehensive." "C tutorial was well written."*

■ Turbo Enhancement Toolkit for C

Enhance your C programming with TURBO ENHANCEMENT TOOLKIT FOR C. The package includes BIOS level mouse, keyboard, printer, video, and disk functions for Borland Turbo C or Microsoft C.

Few available libraries are as complete as TURBO ENHANCEMENT TOOLKIT; none at even three times its price offer mouse utilities. Video functions are another strong point. In addition to windowing and scrolling are direct video memory access and extensive string I/O. All routines are compact (using the Pascal "far" calling convention to save stack space), fast, and well-documented for easy integration. This package will save a C programmer hours of coding and will help to produce error-free output.

(PC-SIG Disk# 1268)

Special Requirements: *Microsoft C or Turbo C.*

Author Registration: *$25.00 or $50.00 includes source code.*

■ Utilities for Programmers

A collection of handy utilities for programmers and computer users in general. Check out the list — there's something here for almost everyone.

ENVED2 — Configure the DOS environment. Make changes more conveniently than using the manual SET command.

PASTILS — There are 52 various utility routines for the Pascal language in this source code written in Pascal. Some of these routines: return the various coordinates of an active window; turn on/off reverse video; produce a single click from the PC speaker; calculate a loan payment amount; get time/date from system; get password; convert strings to lower/upper case; auxiliary device driver and serial port input/output; save/restore a current/previous screen; and more.

87DTEC — This utility comes with two versions of source codes to be compiled. One is coded in the C language and the other in Assembler. Once compiled and linked, 87DTEC gives you the features, video features, and CPU type of your machine. It can also determine your machine's compatability, illustrate timing delays, test for the presence of the ANSI.SYS file and the presence of a math co-processor (8087 or 80287).

TC-HELP — This program is a reference guide to the library function of Turbo C version 1.0. TC-HELP searches the reference guide (a file named TC.DAT) for the specified function, and displays the information about it to the console.

TC10PAT — This program reads a text from a .DIF file and applies the patch to the program file. The .DIF file is relatively free-format.

TPC — TPC reads a Turbo Pascal source file and converts it into the corresponding C source code. It does about 90% of the work required to do the translation (a macro header is included).

UCTURBO2 — This is a library that contains over 200 functions written in C and Assembler. There is a wide selection of graphics functions, general purpose functions, and functions to control the graphics dot matrix and a daisy wheel printer.

C-WINDOW — A special windowing-cursor control-string, character display, and border drawing included. Everything happens at top speed because C-WINDOW was written in C, converted to Assembler, and hand-optimized. The C-WINDOWING TOOLBOX (C-WINDOW) programs on this disk perform the same function for the programming language C (Lattice C or Microsoft C, version 3 or 4).

(PC-SIG Disk# 885)

Special Requirements: *Two floppy drives.*

Author Registration: *Various.*

■ Window Boss

WINDOW BOSS enhances and accelerates the development of systems and applications programs in the C language. Create programs that have the same look and feel as the top-selling spreadsheet, database and desktop accessory packages. Pop-up windows, pull-down menus, status lines, and in-context, on-line help functions can be easily implemented. Your applications can drag windows around the screen and automatically sense the video card installed. All of this without snow, flicker, or delay!

(PC-SIG Disk#'s 873, 1113)

Special Requirements: *None.*
Author Registration: *$55.00*

User Comments: *"Super utilities. Well worth the registration fee." "Quite impressive."*

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Programming, FORTRAN

■ ACM Volumes 1-5

Here is a collection of FORTRAN routines/procedures for solving various problems in the areas of science, engineering, and numerical analysis.

Some of the many routines covered:

- Solution of zeros of polynomials
- Various partial differential equation solvers
- Linear equation solvers for over/under-determined problems (L1, L2 and Chebyshev norms)
- Eigenvalue solvers
- Function integration
- Minimization of unconstrained multivariate functions
- Curve-fitting in Chebyshev norm
- Dependence of solution of nonlinear systems on its parameters
- Sorting
- Global error estimation for ordinary differential equations
- Matrix bandwidth and profile reduction
- Spline interpolation
- Solution of linear systems for special matrices
- Cubic curve-fitting using local data
- Computation of condition numbers of a matrix without computing eigenvectors
- Bessel functions
- Statistical functions
- Revised simplex method for constrained resource network scheduling
- Exact solution of integer systems of linear equations
- Convex hull algorithm for planar sets
- A multiple-precision arithmetic package
- Adaptive smooth curve-fitting
- Basic linear algebra subprograms (BLAS)
- Optimized mass-storage fit
- Efficient one-way enciphering algorithm
- And more

(PC-SIG Disk#'s 1008, 1009, 1010, 1011)

Special Requirements: *A version of the FORTRAN programming language.*
Author Registration: *Any amount is appreciated.*

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Programming, Forth

■ Laxon & Perry Forth

A Forth Language system from Henry Laxon and Mike Perry. A compiler, L&P FORTH is portable and convenient, and especially good for novice programmers. This is a well-structured introduction to the Forth language and includes an introductory text file for beginners. Documentation is brief and recommended reading is "Starting Forth," by Leo Brodie.

(PC-SIG Disk#'s 263, 264)

Special Requirements: *None.*
Author Registration: *None.*

■ MVP-FORTH

MVP-FORTH (Mountain View Press Public Domain Forth) is the programming language Forth intended primarily for advanced Forth programmers on the college or graduate level. This program was developed to accompany the book "Starting Forth," by Leo Brodie. This program is an interpreter, not a compiler and, as such, will not create stand-alone EXE files.

(PC-SIG Disk# 31)

Special Requirements: *None.*
Author Registration: *None.*

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Programming, Modula-2

■ Modula-2 Compiler

The MODULA-2 COMPILER (M2C) proves you don't have to buy a commercial package to get a full-featured compiler! M2C features the compiler combined with an integrated editor and "make" facility, a program linker, an execution profiler, and a makefile generator.

Code generated by the M2C suits either the Intel 8086 "huge" or "large" memory models. More restrictive memory models are not supported. For the "huge" model, each module has its own data and code segment. Each of the segments can be up to 64K in size. For the "large" memory model, static data from all the modules is combined into a single data segment. For either model, pointers are four bytes long and all remaining memory is available for the "heap."

The package includes 37 pages of well-written and indexed documentation.

(PC-SIG Disk#'s 1080, 1081)

Special Requirements: *512K RAM and two floppy drives.*
Author Registration: *$25.00*

■ Modula-2 Tutorial

MODULA-2 TUTORIAL teaches you the fundamentals of this complex language and will have you up and programming by the end of it.

The first part of this tutorial is composed of those features that are common to PASCAL and MODULA-2 and are also of a fundamental nature. You will need to study all of Part I in order to write meaningful MODULA-2 programs. If you are already a fairly experienced Pascal programmer, you should absorb this material very quickly.

Parts II and III teach those features that are new in MODULA-2 — advanced topics and features that allow the programmer to use the full power of the language and write larger and more complex programs.

(PC-SIG Disk#'s 814, 815)

Special Requirements: *Printer.*
Author Registration: *$15.00 to $39.95*

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Programming, Pascal

■ Minigen

MINIGEN is a screen generator that creates Turbo Pascal code for either color or monochrome displays. You can paint data-entry screens (constants areas and data fields), open and close windows with borders and cursor memory, perform controlled data entry, and create pull-down menus.

MINIGEN produces Turbo Pascal code which you can later add into your programs. It is entirely written in Turbo Pascal, using the same source code routines provided on the disk. Also included is a TPU for accessing Microsoft-compatible mouse drivers.

Since this is a programming aid, the documentation assumes you already know how to program in Turbo Pascal. It also assumes knowledge of DOS and jumps right in, describing the various functions and how to use them.

This program is primarily for intermediate to experienced users, and not the novice.

(PC-SIG Disk# 760)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Mystic Pascal

MYSTIC PASCAL is an integrated programming environment that rigidly follows the ISO Pascal Standard.

MYSTIC PASCAL combines editing, compiling, program testing, and debugging in one unit. The traditional pattern of program development — the edit/compile/test cycle — is greatly speeded up with an integrated programming environment. You do not need to return to the operating system and reload each program at each phase of the cycle.

MYSTIC PASCAL is an "interactive compiler" and can compile entire Pascal source files. It also lets you key in Pascal statements, as well as instantly compile and execute at the global level. This is similar to the Direct Mode of BASIC interpreters, with a critical difference: MYSTIC PASCAL is a true object-code compiler. It is not an interpreter or a pseudo-code compiler.

(PC-SIG Disk# 965)

Special Requirements: *None.*
Author Registration: *$10.00*

User Comments: *"Very good for a low cost compiler. Good learning tool." "An excellent tool for Pascal programming. Very useful. Excellent manual."*

■ P-Robots

P-ROBOTS is a game that helps teach programming in Pascal. The objective is to design and program a "robot" that can triumph over similar robots designed and programmed by others in a real-time battle of wits and flying missiles.

You control your robot by writing a procedure in Pascal to specify your robot's behavior and strategy in its efforts to vanquish up to three other robots in a battle to the death. A variety of pre-defined P-ROBOTS Pascal functions allow your robot to track its position on the battlefield, monitor its health or damage condition, and calculate the distance and angle to opponents from its current battlefield position. Each robot is equipped with a cannon to fire missiles, and a motorized drive mechanism to either close in to kill a hapless opponent or flee from a fierce foe.

P-ROBOTS is an excellent way for the novice programmer to sharpen his/her Pascal skills and have fun at the same time. However, P-ROBOTS does assume that the robot designer/programmer already knows the fundamentals of programming in Pascal.

For the experienced programmer, P-ROBOTS offers a chance to see just how well you program in a programming environment where "bad" code can lead to graphic and ignoble defeat and "brilliant" code can bring triumph and glory.

(PC-SIG Disk# 1386)

Special Requirements: *A version of the Pascal programming language.*
Author Registration: *$20.00*

■ Pascal Turbo Enhancement Toolkit

For programmers who like Turbo Pascal but avoid it because it's difficult to reach "the heart of the machine," here is an invaluable collection of low-level procedures, including routines for video, printer, disk, keyboard, and mouse control that are not included in the standard library.

The TOOLKIT enables true BIOS access from video pages to printer status bits, which is difficult to obtain in Turbo Pascal. Best of all, this library includes mouse functions for polling and controlling a mouse, making professional, user-friendly programs a whole lot easier to create. Written in Assembly language, it's fast and compact.

(PC-SIG Disk# 1247)

Special Requirements: *Turbo Pascal v4.0 or 5.0.*
Author Registration: *$30.00 to $55.00*

■ PASCAL TUTOR

PASCAL TUTOR is a text-based tutorial on programming with the Pascal language. The assumption is that you know nothing about Pascal in particular and programming in general.

It begins with the most elementary aspects of programming and takes you through each step, from dynamic allocation to the use of linked lists. The program was specifically written for use with Turbo Pascal versions 3.0, 4.0, and 5.0. The Pascal source code used for examples throughout the tutorial is included.

(PC-SIG Disk#'s 579, 580)

Special Requirements: *Printer.*
Author Registration: *$15.00 to $39.95*
User Comments: *"Very informative. Good for anyone who wants to learn Pascal."*

■ Portable Pascal Compiler

The PORTABLE PASCAL COMPILER offers students a limited compiler that is an effective learning tool.

The current package consists of a compiler and p-code interpreter. Compile code from a file or directly from the keyboard. However, when compiling from the keyboard you can edit only the current line. Sets are limited to 64 members and strings to 11 characters.

(PC-SIG Disk# 1321)

Special Requirements: *Turbo Pascal 4.0.*
Author Registration: *None.*

■ PXL

Better than Turbo Pascal v4.0's source lister, PXL lets you generate a cross-reference listing that tells what lines have certain reserved and other specified words — very useful for tracking down annoying problems.

You can use this program for source files produced with Turbo Pascal v3.0, but you must use the reserved word file PXLT3.WDS instead of PXL.WDS. PXL also lets you change the header appearing at the top of the listing.

There is extensive documentation. If you have special needs, such as a lister for another dialect of Pascal, the author spells out what you need to do to make PXL run properly for your Pascal.

(PC-SIG Disk# 1304)

Special Requirements: *Turbo Pascal v3.0 or 4.0.*
Author Registration: *None.*

■ ScnDsign

In Turbo Pascal, designing screens for inputting data is often a tedious task. However, with SCNDSIGN you can design with very little effort, creating screens on the monitor exactly as they'll appear in your program. Then, SCNDSIGN handles the complicated part of creating the source code in Turbo Pascal. The screens can also be saved for later use.

(PC-SIG Disk# 1092)

Special Requirements: *None.*
Author Registration: *$25.00*

■ T-Ref

If your programming language of choice is Turbo Pascal, you'll find that you won't be able to resist this one.

T-REF is a lister/cross-referencing program that makes your programming easier and quicker. Features include a full-screen driver with switch-selectable options; context-sensitive help windows to speed the learning process; and output directable to file or printer. You can also reform words in the lister along with line numbers, lexical and block-level numbering; cross-reference selection by object type and usage; error analysis; procedural table of contents; and much, much more.

(PC-SIG Disk# 827)

Special Requirements: *None.*
Author Registration: *$35.00*

User Comments: *"Nice implementation. It creates neatly formatted lists and cross references indexed by line numbers."*

■ Turbo Apprentice

With TURBO APPRENTICE, the built-in help for Turbo Pascal can be appended to include prototypes and descriptions of your own functions, procedures, and units. TAP puts references to any routine you've written one keystroke away. It will build its index without any changes in source code. TAP can store up to 46 lines of information for each entry and can even cross-reference.

TAP is an excellent tool for any programmer who has a sizable number of routines to remember.

(PC-SIG Disk# 1459)

Special Requirements: *Turbo Pascal v4.0 or higher.*
Author Registration: *$15.00*

■ Turbo Designer

TURBO DESIGNER is a programmer's toolbox for the Turbo Pascal compiler. TURBO DESIGNER helps you create pull-down menus, pop-up menus, and sophisticated help screens in your applications. It is very easy to use. The program asks you to input your data (what you want to appear when the program runs), on a series of "what you see is what you get" full-screen editors. Once you have set up your menu work environment, which includes windows, icons, and even a trash can, TURBO DESIGNER creates a Pascal source file according to your data. This new file can be compiled using Turbo Pascal. The result is a program with a complete environment, and a sophisticated user interface.

Using a price/performance ratio, TURBO DESIGNER is one of the best code generators of its type in the market today. Its screen routines are as fast as they possibly can be, and the algorithms used cannot be surpassed on the IBM-PC. TURBO DESIGNER is better than "just a library," since it creates actual code, and has routines for a pop-up directory listing, trash can, sophisticated help screens, and much more. It maintains an easy-to-use environment, including icons, pop-up windows, and pull-down menus. TURBO DESIGNER detects a monochrome monitor and corrects the display. A new palette of black and white colors is used, so all data is displayed correctly. This is a great utility for shareware developers, since it creates an easy-to-use environment, perfect for the first-time user.

(PC-SIG Disk# 1353)

Special Requirements: *512K RAM, hard drive, and TURBO Pascal v4.0 or higher.*
Author Registration: *$25.00*

■ Turbo Pascal Utilities

A collection of utilities, some of which can be incorporated into TURBO PASCAL programs, others of which can be used by themselves. BLDBAT (Build Batch) is a simple little utility that builds a text file of the filenames specified in the command line parameters. PASTE & MELD allows you to merge two files in various ways. PUTCURS puts the cursor wherever you want it. INDENT handles both indenting and case standardizing of code. EXTRACT pulls out the names of all procedures and functions along with all in-line comments. SGCVERT and SGTEST help you use SCREEN GENIE, a good screen generator for Turbo Pascal.

The utilities EXTRACT, INDENT, SGCVERT, and SGTEST are intended for use with Turbo Pascal v4.0. EXTRACT and INDENT can be used with Turbo Pascal v2.x or 3.x. The rest are intended for batch file building and modification and do not require any programming language.

(PC-SIG Disk# 1321)

Special Requirements: *Turbo Pascal 4.0.*
Author Registration: *$25.00*

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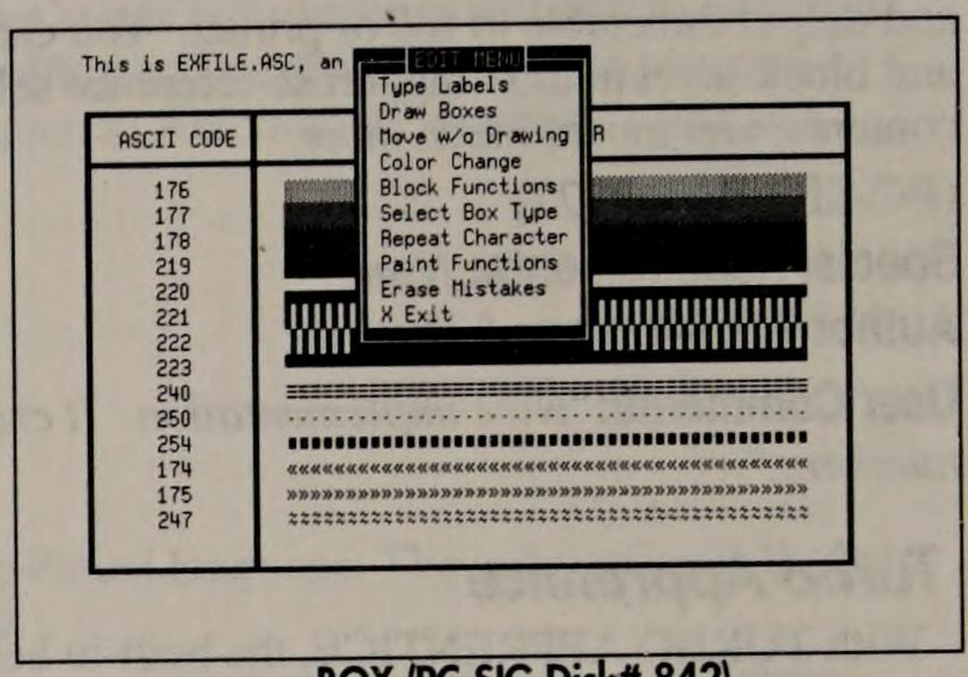
Programming, Tools

■ BOX

BOX is a screen-designing tool that lets you quickly create entry screens, help screens, and menus.

You start with a blank screen, and using simple commands, you can draw lines, boxes, enter text, and change foreground and background colors. You can repeat an entry, paint an area, copy or move portions of the screen, and select special characters from an ASCII table. Boxes are incredibly easy to design, and several different border lines are provided to create them.



BOX (PC-SIG Disk# 842)

Any screen can be saved in any of three formats (ASCII, memory, or packed), depending on the use of the screen. ASCII format lets you save your screen so it can be edited by a word processor.

Memory or packed format screens can be loaded directly and popped instantly on the monitor from a Pascal or C program. This disk also contains all the source code routines that you need to incorporate BOX in your Turbo Pascal programs.

(PC-SIG Disk# 842)

Special Requirements: *None.*
Author Registration: *$20.00*

■ CAPP

CAPP (C and Pascal Print and Check) helps you find errors in your C or Pascal program by printing a formatted output of the source code. This output contains visual aids that include source lines, blocks, comments, and possible errors. Nine simple semantic error checks are made, some intended to bring to your attention programming situations that may give you unintended results. The error file contains the line number of source lines which have an error or a probable error.

(PC-SIG Disk# 1176)

Special Requirements: *None.*
Author Registration: *$7.95*

■ Doug's Programming Language (DPL)

DPL, or DOUG'S PROGRAMMING LANGUAGE, is a macro language which uses high-level language syntax for its instructions.

DPL's language does not limit the programmer from using native 8088 code, but makes programming easier by automatically declaring segments and the program entrypoint. All return codes except end-of-file are standard DOS return codes. The program handles 64K of code and data and stack segments. Variables are automatically declared.

DPL supports simple data types and still permits the programmer to build other types. Basic data types supported are 16-bit integers and ASCIIZ strings. The 16 bit integers are considered to be signed integers and therefore will be manipulated appropriately. Files are supported which allow the program to address any disk file or logical device, such as the keyboard and screen.

Extensive documentation is available on disk in both standard ASCII and WordStar format. Also available is the DPL source program written in TURBO C. Many application routines and application routine construction files are provided, along with a demonstration of the use of shade and how to manipulate it.

(PC-SIG Disk# 1262)

Special Requirements: *Microsoft MASM, MAKE, LINK, and LIB, v3.0 through 5.0.*
Author Registration: *$25.00*

■ Extended Batch Language

Extended Batch Language adds additional features to the batch processing capabilities already supported by DOS. The program will guide you in the creation of batch files that prompt for responses and keep track of variables. Use it to set up printers, keep configuration parameters up-to-date, initialize programs, or create other batch files. Optional floating point, enhanced string and arithmetic operations, and file I/O support is provided. It is well- documented and includes example batch programs.

(PC-SIG Disk# 124)

Special Requirements: *None.*
Author Registration: *$49.00*
➤ ***ASP member.***

■ Fixer

Edit your WordStar, WordPerfect, or ASCII files so they can contain the 255 character ASCII set. Press your ALT key along with the decimal code that denotes the character you desire and it will be put into your file. The program has a full screen editor, and on-line help is available to you from a pop-up window.

(PC-SIG Disk# 978)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Font Editor

Design and display your own special font characters. Two font editors have been provided: one for medium-resolution mode and the other for high-resolution mode.

After a font file is loaded or created, the entire font set is displayed at the bottom of the screen (all 128 characters) and the upper-right corner displays the bit mapping of a single font set. You can edit each bit or pixel of a certain character. The character can be rotated, moved, inverted, copied, and saved for future use.

The upper-left corner contains a menu of function-key commands for easy reference. Once you have created a font set to your satisfaction, you can access and use the file with Assembler, Pascal, C, BASIC, or any other language that allows you to load the font file into a specific location in memory and then program DOS to acknowledge that location.

FONT EDITOR will not only help you to create your own fonts, but it can also help you design game graphics characters that make moving screen objects easier and neater to code.

(PC-SIG Disk# 856)

Special Requirements: *CGA or EGA.*
Author Registration: *$10.00*

■ Icon Maker

ICON MAKER is a menu-driven program that allows you to create graphical icons and cross-stitch graphics interactively in any of three graphical modes supported by the IBM-PC family. These three modes include the high-resolution 640 X 200 two-color, the 320 X 200 four-color, and the 160 X 100 sixteen-color. The icons you create can then be used directly in your program data area instead of having to be accessed as an outside file by your program.

All icons created can be saved in an ASCII file, which will then be used in a form that is acceptable by the macro assembler (in the form of dw and db statements) and can be used in the data segment of your program to define your shape.

(PC-SIG Disk# 485)

Special Requirements: *CGA and an Epson-FX or compatible printer.*
Author Registration: *$10.00*

■ MMake

Programmers — automate the process of compiling and linking a program that is contained in several (or numerous) source files. MMAKE can be used with any programming language and with any compiler that can be run from the MS-DOS command line. It can speed up program development enormously, both by making recompilation of a program go much faster, and by preventing errors when a changed file is not recompiled. Based on the UNIX "make" utility.

(PC-SIG Disk# 978)
Special Requirements: *None.*
Author Registration: *$20.00*

■ Qparser Plus

Here is the public domain version of QPARSER, a tool for writing translators, compilers, assemblers, and other language parsing programs. This disk has the full QPARSER software but it is limited, with a top limit of 25 production/parsing rules. QPARSER is an excellent way to experiment with language design and compiler development. Very useful for computer science students.

(PC-SIG Disk# 419)
Special Requirements: *Hard drive recommended.*
Author Registration: *$10.00*

■ SCRDES

SCRDES is a full-screen text/graphics editor designed to ease the coding of custom screens — such as menu screens, data-entry forms and help screens — into programs. The editor was created for use with CGA and EGA, but will also function with a monochrome card, although with less distinctive effects.

The program was designed primarily to produce binary files of the type "character, attribute, character, attribute" for inclusion in Assembly language programs, or to be read directly from a file to the screen buffer in a high-level language. It will also produce ASCII text files of the form character, character, CR/LF, character, character, CR/LF (25 lines) suitable for use in interpreted languages such as BASIC or dBase III.

(PC-SIG Disk# 1303)
Special Requirements: *CGA, EGA, and DOS 3.x.*
Author Registration: *$15.00*

■ Screen-Do

SCREEN-DO lets you design and create screens for use in BASIC programs. Each screen that is saved to the disk can be accessed through the BLOAD command in BASIC.

SCREEN-DO simplifies the process of editing screens through commands that let you easily delete, insert, move, and copy certain sections of the screen. Another function displays the ASCII characters numbered 126 to 254 and let you display them on the screen. One option lets you move the cursor across the screen to trace a certain character you selected. SCREEN-DO has on-line help that makes it easy to learn, in addition to simplifying the designing of screens for use with BASIC programs.

(PC-SIG Disk# 1118)
Special Requirements: *None.*
Author Registration: *$50.00*

■ Snobolyt Utilities

Programmers — Here's a diskful of handy utilities to take over some of the drudgery of programming for you.

Assembler source utilities include ASMGEN2 and MAKASEQ, two disassembly aids for the program ASMGEN (not included on this disk). ASMRECOV recovers assembler source from listing files, and PUBLBL is a debugger for assembly language.

ASMSTAT generates assembler program statistics, GENTBLS generates program source code tables, and SAPREF appends the assembler cross-reference to the listing file. CASE is a text file utility that converts files containing upper and lower case characters into all upper or lower case characters. DIFFER finds differences in two text files, and LIST displays any text file.

MSCRIBE produces a handy formatted version of a text file for easy reading. OVER shifts a print file to the right, and REPAGING repaginates a text file. PLAYCVMS, PLAYCUT, and PMUSCVT are utilities for the program DRVSPKR.SYS (not on this disk). DELALL deletes all matching files, DIRCMP2 compares files in different subdirectories, and DIRTREE makes a file of subdirectories present.

Among the other utilities on this disk are MELIZA, a psychoanalysis program, and SPACE, a disk-space management and recover utility.

(PC-SIG Disk#'s 928, 1128)

Special Requirements: *Hard drive.*

Author Registration: *Varies.*

➤***ASP member.***

■ SPA:WN

Learn the concepts of nodal or structured programming with SPA:WN, Structured Programming Automated: Warnier Notation.

Tutorials are provided on the concepts of structured programming, and on a program for use during design and documentation of structured programs in any high-level language.

Warnier notation provides a graphic description of relationships between various components. SPA:WN provides the framework that lets you track these relationships. It then produces target language source code, again in any high-level language, as well as automatic layout and pagination of a Warnier diagram.

The concepts of structured programming are also applicable to computer or other complex system design.

(PC-SIG Disk# 442)

Special Requirements: *None.*

Author Registration: *$50.00*

■ Vanilla Snobol4

VANILLA SNOBOL4 is an easy-to-learn, flexible language used for non-numeric applications, such as artificial intelligence, database analysis, text formatting, data conversion, identifying data patterns, searching text files, and more. .

This version of SNOBOL4 does not have real numbers, and the object program and data cannot exceed 30K in size. Otherwise, VANILLA SNOBOL4 provides the entire SNOBOL4 programming language as described in textbooks. Source programs for SNOBOL4 are typically 5 to 10 times smaller than equivalent C or Pascal programs. A 150-page language tutorial and reference manual are included.

(PC-SIG Disk# 980)

Special Requirements: *None.*

Author Registration: *None.*

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PROINDEX Writers, Students, Editors — PROINDEX lets you negotiate the most problem-filled part of writing a document or book: building the index. See *Word Processor and Text Utilities.*

(PC-SIG Disk# 977)

Project Management

■ Automated Planning Form (APF)

AUTOMATED PLANNING FORM (APF) is a menu-driven set of planning tools. You can quickly make, store, retrieve, and update project schedules.

APF uses CGA graphics, and via DOS GRAPHICS.COM, can quickly produce presentation-quality printouts on most dot matrix printers. Plan projects, and communicate plans and progress to management, clients, and those working on the project.

APF features:

- Up to 17 action items with subschedules for more detail
- Works in weeks, months, quarters, or years
- Automatically translate from weeks to months to quarters to years
- Shows percent completion of each task (action item)
- Shows dependencies in critical path
- Full edit ability

• Automatic origination and revision dating

(PC-SIG Disk# 955)

Special Requirements: *CGA.*

Author Registration: *$39.00*

User Comments: *"Easy to use! Good for person who doesn't need a complicated, heavy-duty planner."*

■ Easy Project

For the office manager on the go, EASY PROJECT is a comprehensive project management, tracking, and controlling system. Context-sensitive help screens are a standard feature of this menu-driven package, and the files it creates are compatible with dBase III.

EASY PROJECT supports up to 20 user-defined project phases and an unlimited number of resources. It uses variable-scale Gantt charts to show planned-versus-actual dates of completion, and has extensive reporting abilities. It has two automatic installation programs, which simplify the setup process for either hard disk or dual floppy disk installations, and 11 pages of understandable documentation.

(PC-SIG Disk# 1082)

Special Requirements: *Two floppy drives.*

Author Registration: *$39.00*

➤***ASP member.***

■ Gantt Charting

Keep track of that project, know where your resources are, and how they've been committed. Analyze your progress with a Gantt chart.

Produce Gantt charts lengthwise on paper. Plot up to 20 tasks with timespan ranges from 24 to 36 months. If space allows, timespan increments can be in weeks. The program is self-explanatory and checks extensively for invalid input.

(PC-SIG Disk# 1306)

Special Requirements: *CGA, SIDEWAYS, and dot-matrix printer.*

Author Registration: *None.*

■ Gantt Pac

This is a group of project management aids that produce presentation-quality Gantt charts — graphic displays of schedules — from a list of projects, dates, and times.

Four primary applications are provided: Gantt chart transparencies for meeting displays, the ability to directly drive a video projector from a PC for meeting displays, Gantt charts for insertion into the text files of word processors, and direct use to view project status. These types of displays are commonly used throughout industry for management presentations of project status and resource use.

(PC-SIG Disk#'s 593, 1198)

Special Requirements: *Printer recommended.*

Author Registration: *$295.00*

User Comments: *"Good, but a bit complicated for a new user."*

■ PC-Project

PC-PROJECT lets you organize and control complex projects. It uses the critical path method to produce a project schedule displayed in the form of a Gantt chart.

PC-PROJECT views a project as a group of tasks or activities. When you supply the estimated duration of each task and the relationships between the tasks (the predecessor tasks and successor tasks), it automatically calculates a schedule for you and displays it as a Gantt chart. With the chart, you can see when each task should begin and end, the current status of each task, and whether or not the task is on the critical path.

PC-PROJECT enables you to assign such resources as employees and equipment to individual tasks, and obtain exact cost information by resource, task, or the project as a whole, which can be printed out as task reports.

The program is completely menu-driven and contains excellent on-line help, plus a detailed 75+ page on-disk manual. If you are moderately familiar with project management and critical path method, you will be able to use this program with relative ease.

(PC-SIG Disk#'s 1340, 1341)

Special Requirements: *None.*
Author Registration: *$75.00*

■ Production Control Schedule

Captain Bly should've had this program for a first mate. It keeps track of who is to do what and when, and prints out a daily work log for such activities as swabbing the decks and polishing the brass.

SCHEDULER helps you supervise the daily activities of numerous individuals and departments working on a variety of projects. The program remembers activities that recur daily, weekly, monthly, and quarterly. It takes into account up to 36 holidays and generates to-do lists to start the day of each person and department.

Your calendar is never carved in stone. Change work days, alter holiday schedules, or revise anything, and the global or specific changes are made automatically.

You can adjust work weeks from one to seven days and tell it to skip days, like the first of each month. One activity can be set to trigger other activities. Just tell SCHEDULER to set activities a variable number of days prior to or following some scheduled activity and watch it take care of the details.

Its project planning ability helps prevent goofs. If the stockholder meeting is set for the third of next month, tell SCHEDULER who has to do what and when. First, it prints out a chronological checklist of all the activities that need to be done. Then, day-by-day, it coughs up to-do lists insuring that everything that needs to be done, gets done!

The fat on-disk user guide is crammed with useful information, but you may never need to consult it due to the simple-to-understand menus used to guide you along.

SCHEDULER will help keep your organization shipshape, and that may just lower the odds of employee mutiny!

(PC-SIG Disk# 1244)

Special Requirements: *None.*
Author Registration: *$55.00*

■ Project Management

A complete interactive project management system using the critical path method of project control. Know where your project stands at all times. Identify those bottlenecks and deal with them before your planning is affected.

Handle 500 inter-related and dependent tasks, subcontractors, variable start dates, and holidays. Calculate the critical path, cash-flow, cost reports, Gantt charts, and precedence networks.

The system is designed to handle all necessary functions internally or to let experienced users build and modify files using system-editing software.

A sophisticated tool for anyone who needs a good planning utility.

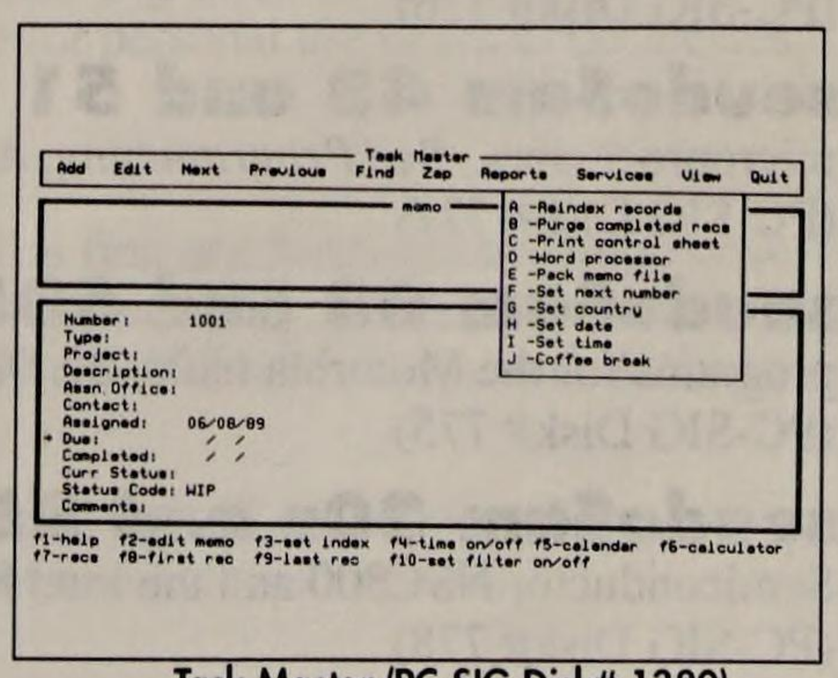
(PC-SIG Disk# 423)

Special Requirements: *132 column printer or printer with compressed print mode.*
Author Registration: *$50.00*

User Comments: *"Easy to use with menus." "Good, helpful tool at work. Good, but complicated for first-time user."*

■ Task Master

TASK MASTER helps you stay on top of all types of projects, assignments, tasks, schedules, correspondence, etc. It allows you to set up a database with customized forms/records that represent your activities, such as individual tasks and schedules for a particular project. Custom reports can be printed, including a list of all past-due assignments, all assignments for a particular project, which assignments are due for completion on a specific date, etc.



Task Master (PC-SIG Disk# 1380)

TASK MASTER is completely menu-driven, using pull-down menus for selected options. A pop-up calendar and calculator are also provided to help you build and edit your records/forms. The program is compatible with standard dBase III+ database files and supports an unlimited number of records.

(PC-SIG Disk# 1380)

Special Requirements: *384K RAM and a hard drive.*

Author Registration: *$35.00*

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Project Management Handles 1000 tasks, subcontractors, variable start dates, and holidays. Uses CPM (critical path method) to calculate cash-flow, cost reports, Gantt charts, and precedence networks. See *Project Management.*
(PC-SIG Disk# 423)

ProMan A menuing program to manage access to files and directories on your hard disk. See *Menu Programs.*
(PC-SIG Disk# 897)

ProMenu32 A memory-resident, printer-control menu for Epson and compatible printers. See *Printer Managers.*
(PC-SIG Disk# 779)

Prompt A symbol such as **A** or **C** which appears on a computer screen to signal the user that the computer is ready to receive input. Also called the DOS prompt, the letter in the prompt indicates the default drive.

Property Management See *Real Estate and Property Management.*

PropMan A single-entry accounting system for property management that offers tenant tracking and history, partial payments, deposits, and pro-rata charges. See *Real Estate and Property Management.*
(PC-SIG Disk#'s 1179, 1180, 1452)

Prospecting, Sales See *Sales and Prospect Management.*

Protect and Unprotect Inside secrets on how to "unprotect" a variety of programs. See *Security — File, Disk, or System.*
(PC-SIG Disk# 414)

Protocol Rules or conventions for communicating between computer devices. For programs see *Communication Programs.*

PRTLabel PRTLABEL prints multiple copies of a single label or single labels with a new address each time. Print up to six labels across, 10 lines per label. See *Label Makers.*
(PC-SIG Disk# 744)

PseudoSam 18 and 65 Machine language cross-assembler for RCA 1802, 4, 5, 6, and 6502 microprocessors. See *Programming, Assembly.*
(PC-SIG Disk# 776)

PseudoSam 48 and 51 Machine language cross-assembler for the Intel 8748 and 8751 microprocessors. See *Programming, Assembly.*
(PC-SIG Disk# 777)

PseudoSam 68 and 685 PSEUDOSAM 68 and 685 are machine language cross-assembler programs for the Motorola 6800, 01, 02, 03, 08, and 6805 microprocessors. See *Programming, Assembly.*
(PC-SIG Disk# 775)

PseudoSam 80z and 85 Machine language cross-assembler for the Zilog z80, National Semiconductor NSC800 and the Intel 8085 microprocessors. See *Programming, Assembly.*
(PC-SIG Disk# 778)

PSQUARES A computerized card game for one to 10 players trying to get the best poker hands possible. See *Games, Cards.*
(PC-SIG Disk# 1191)

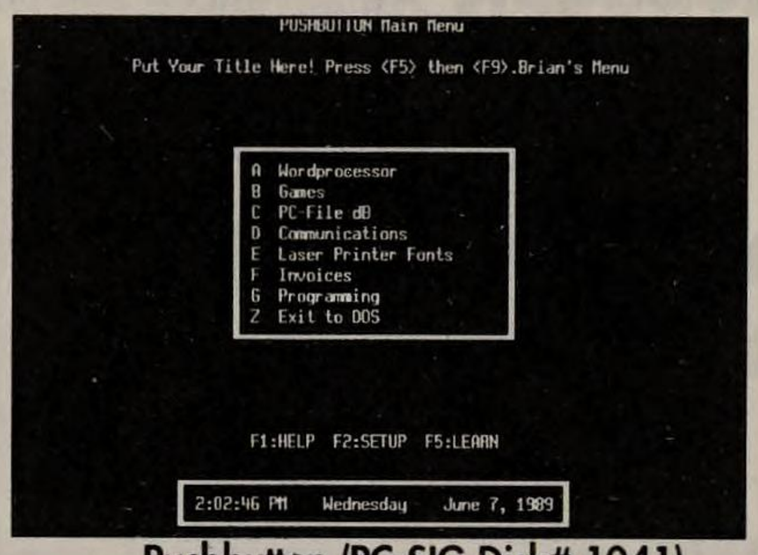
Ptrooper You have the last ground-to-air gun left in the battlefield and the paratroopers want it. Shoot them out of the sky before they can get it. See "Game Series 21" listed under *Games, Arcade.*

Public Domain The condition of being free of copyright or patent. Public domain software is free of charge.

Purchase Order System Track all P.O.'s, open and cleared, and list all your vendors with this system. See *Accounting, Purchase Orders.*
(PC-SIG Disk# 741)

Purchase Orders See *Accounting, Purchase Orders.*

Pushbutton A menu system to access your programs at the press of a key. See *Menu Programs.*
(PC-SIG Disk# 1041)



Pushbutton (PC-SIG Disk# 1041)

PXL A cross-reference lister for tracking down those annoying programming problems. See *Programming, Pascal.*
(PC-SIG Disk# 1304)

Pyramid A Q-Bert clone that is fast from level one. See "Arcade Series 3" listed under *Games, Arcade.*

Pyramids Capture your opponent's pieces by confronting him head-on. You are not able to see the power of his piece until he is confronted. If your power is greater, you win. A lot like Stratego. See "Board Games" listed under *Games, Board and Dice.*

Q

QCHECK3 - Checking Account Management System QCHECK3 is a powerful checking account and financial management system suitable for personal use or small businesses. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk#'s 968, 969)

QIP - The Quick Information Processor QIP is first and foremost a wordprocessor. But it is also a table processor. Create tables, graphs, or lists from within this powerful information management tool. A spreadsheet/wordprocessor in one. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk#'s 1477, 1478, 1479, 1480)

QMODEM SST A top-rated telecommunications package. Fast and versatile, it supports Hayes, Racal-Vadic, and other modems and runs at up to 9600 Baud. See *Communication Programs.*
(PC-SIG Disk#'s 310, 1022, 1023, 1483, 1484)

Qparser Plus A tool for writing translators, compilers, assemblers, and other language parsing programs. See *Programming, Tools*.
(PC-SIG Disk# 419)

QRef A memory-resident help function that displays a list of all the DOS commands available and a detailed description of them. See *DOS and PC Training and Education*.
(PC-SIG Disk# 875)

Quantoids of Nebulous IV You must seek and destroy enemy Quantoid ships manned by graduates of various business schools who seek to infect the universe with their unimaginative MBA quantitative methods. See *Games, Adventure and Text*.
(PC-SIG Disk# 749)

QubeCalc An advanced spreadsheet with many desirable features such as 3-D access to other files, macro facility, 44 predefined computation functions, and graphs. Rated tops by PC-Magazine! See *Spreadsheets*.
(PC-SIG Disk# 696)

Qubert Another good Q-Bert clone. See "Game Series 21" listed under *Games, Arcade*.

QuickList Keep track of all your possessions for insurance purposes. Record current replacement costs and where something is located in the home. See *Home Management*.
(PC-SIG Disk# 1033)

Quicksoft The software company founded by Bob Wallace that developed and promotes the popular shareware wordprocessor, PC-Write. See "PC-Write " listed under *Word Processors, Text Editors, and Outliners*.

QuickTran Telecommunications program that compresses and decompresses data as it comes in or goes out — resulting in nearly twice the speed! Must be installed on both PCs. See *Communication Programs*.
(PC-SIG Disk# 1371)

Quiksort QUIKSORT is a high performance sort/merge utility for processing large data files. See *Databases*.
(PC-SIG Disk# 1152)

Quimbee A game very much like Yahtzee. Roll six dice and use the best dice to your advantage. See "Game Series 18" listed under *Games, Arcade*.

Quiz Preparation See *Test and Quiz Preparation*.

Quotes, Bids, and Estimating

■ Construction Estimator

For the home handyman and amateur builder who likes to tackle major projects, CONSTRUCTION ESTIMATOR provides a menu-driven aid for estimating building project costs.

Estimation calculations are provided for concrete footings, stem walls, and floor slabs; block and wood walls; ceiling and floor joists; roof and floor sheeting; sheetrock; and roof cut and stack. Hardcopy of cost totals can be obtained by using the print command.

(PC-SIG Disk# 1159)

Special Requirements: *None.*
Author Registration: *$15.00*

■ PC-Estimator

PC-ESTIMATOR helps you estimate building costs for projects of all sizes and kinds, from skyscrapers to kitchen remodeling. Developed by construction professionals, the program can be changed to be as big or small, as complex or simple as you want. The bottom line is custom cost estimates with your markup and choice of

detail included.

You begin with pull-down menus, lots of help, documentation and sample files. You will build material price lists and cost data that keeps accumulating. The databases are unlimited, growing as your application grows. They include markups, labor and equipment rates, standard cost codes and vendor tracking. You can have different markups for individual estimates or multiple estimates carried out simultaneously.

The program produces reports for several levels of detail in estimates including itemized and built-in markup applications, and allows for "what if" type analyses. An on-screen takeoff calculator with memory is available at the touch of a function key. The data files are 100% compatible with dBase III+ application programs and are translatable by Lotus and Symphony. Lookup windows allow you to view any file at any time.

Wage rates for a number of construction trades are included with the program. They are tied to four-digit codes commonly used by the construction industry. Based on union rates, they are the average of several major U.S. cities and can easily be customized to fit your area.

(PC-SIG Disk#'s 1383, 1384)

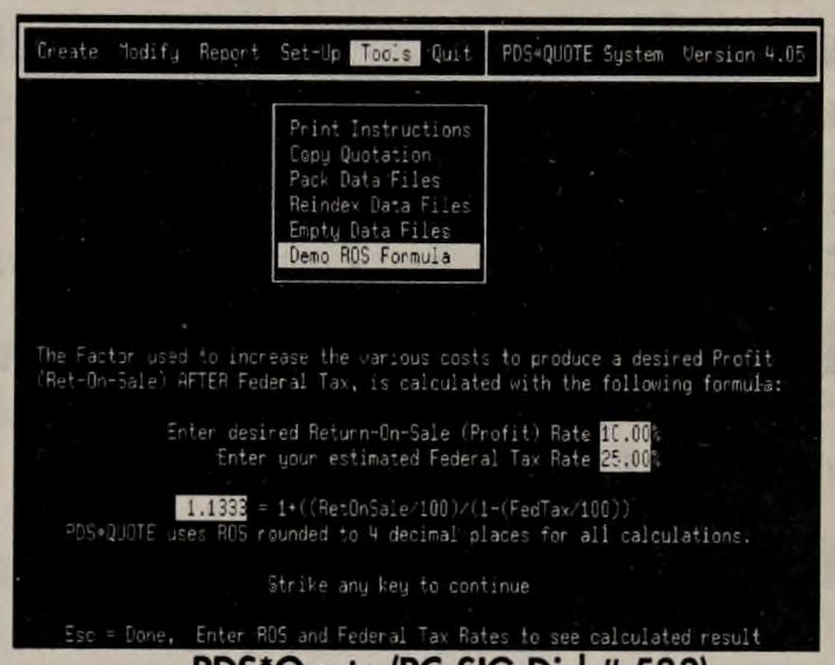
Special Requirements: *384K RAM.*
Author Registration: *$69.00*

■ *PDS*Quote*

This group of programs helps you quickly and accurately prepare quotations for projects based on your databases with the elements required for the project; i.e., materials, processes, parts, labor rates, markups, etc. If you need quick analysis and production of financial data, this could be a great help. A very professional package for small to medium-sized businesses needing analysis and projections tools.

(PC-SIG Disk# 533)

Special Requirements: *None.*
Author Registration: *$35.00*
➤ASP member.



PDS*Quote (PC-SIG Disk# 533)

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R

Radiation A calulator to tell you approximately how many REMs of radiation you are absorbing each year. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1432)

Radiation Exposure See *Reference Materials (books/articles/information/data).*

Radio Repair How to restore antique radios for fun and profit. Includes a vacuum tube guide and RMA color code guide for transformers and coils. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1432)

RAM Random Access Memory. The main computer memory used for processing programs. RAM is only active when the computer is turned on; it loses its data when the computer is shut off. The amount of computer memory is typically measured in kilobytes of RAM (640K, etc.).

RAM disk A disk drive that is simulated with a computer's memory. Data can be written to or copied from a RAM disk just like any other disk drive. The advantage of a RAM disk is that access is faster than that of a magnetic disk. However, the RAM disk and data it is storing are lost when the computer is switched off. Also called a virtual disk. For programs see *Utilities, System or Hardware*.

RAM Editing See *Utilities, System or Hardware*.

RAM Memory Diagnostics See *Utilities, System or Hardware*.

RamTest Test your PC's random access memory (RAM) chips. See *Utilities, System or Hardware*.
(PC-SIG Disk# 1123)

Ranadinn Adventure game with simple graphics pitting you and your allies against an evil magician and his wicked hordes. Ages: 12 to adult. See *Games, Adventure and Text*.
(PC-SIG Disk# 1350)

Rate of Return See *Loan Calculators*.

RBBS-PC Full-featured and powerful, this is the bulletin board system used for many PC-based boards. Source code is included. See *Bulletin Board Systems (BBS)*.
(PC-SIG Disk#'s 212, 334, 621, 622)

RDIR A time-saving utility that will remove a subdirectory and all the files in it. See "Baker's Dozen" listed under *File Management Utilities*.

Read My Disk! Recovers ASCII data from a floppy or hard disk that has been severely damaged! This damage can be missing file allocation tables, missing directories, deleted files, or even disks with holes in them! See *File Management Utilities*.
(PC-SIG Disk# 1394)

Real Estate and Property Management

■ Crisp

CRISP is a bookkeeping system that can support 99 individual databases, making it perfect for property management of multiple commercial or investment properties, or providing individual accounting for several separate projects or companies.

CRISP is completely menu-driven. You select the property, or account, you want to operate with from a menu and then select the operation you want from another menu. Each database has its own journal of receipts and disbursements of up to 30,000 entries, chart of accounts of up to 200 accounts, and payer/payee list of up to 200 names (plus up to 32,000 special payer/payees).

You can display up to three bank account balances, create expense reports, print checks, reconcile bank statements for each property or project, and maintain an account list. You can also back up all account data to another file for safe-keeping. In addition, CRISP can export files of monthly account totals to Lotus 1-2-3.
(PC-SIG Disk# 1346)
Special Requirements: *Printer*.
Author Registration: *$55.00*

■ Mini-Minder

MINI MINDER is an easy-to-use rental property management system written specifically for managers of mini-warehouses or locker rental areas. (With a little imagination, the program could be adapted to fit allmost any rental property situation.)

Track information such as size (or other description), rental rate, various tenant data, payment records, and expense of operation on a property. Perform other tasks, such as producing mailing labels in record sequence and

billing tenants. Run daily reports, list all outstanding units (those who have not paid yet), view the status on a single unit, or list the status of all units.

(PC-SIG Disk# 961)

Special Requirements: *None.*
Author Registration: *$50.00*

User Comments: *"Mini Minder is perfect for real estate investors and property managers. It does just what it claims. Keeps track of all important information on rental units. Easy to use."*

■ PC-Agent

PC-AGENT is one of those rare, focused programs that performs with speed and elegance. This no-nonsense program helps sell real estate by serving as a prospect card filing system for realtors.

Everything important about the prospects and their desires is in the file. Single-family residence, townhouse or condo? What price range? Location? Do they want a garage? When a home pops up on the market, it quickly calls up everyone on the list who wants a property like that and has the money, or credit line, to afford it.

Sixteen fields for data cover: name, address, phone numbers, price range, income, cash down, number of bedrooms, style, garage, land, area desired, and comments. A user guide is available, but the screen prompts are so self-explanatory you'll be in business in minutes.

(PC-SIG Disk# 1405)

Special Requirements: *None.*
Author Registration: *$45.00*

■ Professional Real Estate Analyst

PROFESSIONAL REAL ESTATE ANALYST is designed for multi-family and commercial real estate analysis. All files in the ANALYST are interrelated, operate via Lotus-like menus, and have help screens.

The main program, Cash Flow Analysis, has Lotus worksheets that perform 13 measures of investment, including Cap Rate, IRR, FMRR, Cash on Cash, NPV, and Debt Coverage Ratio. Determine purchase price with IRR, CR, GRM, and more. It has been updated to comply with current tax laws.

The 130-page manual includes menu maps. You don't need to know Lotus to use this program.

(PC-SIG Disk# 923)

Special Requirements: *Lotus 1-2-3.*
Author Registration: *$55.00*

User Comments: *"Good for real estate analysis." "Quite good. Comprehensive investment analysis."*

■ PropMan

PROPMAN will do property management accounting and record keeping for individual owners with up to 50 rental units. These may be 50 individual houses or one 50-unit building or any combination in between. Financial records are kept individually for each building. PROPMAN is an on-line accounting system. All data is updated throughout the system each time new information is entered. Displays and reports are always current. There are no transactions to post or trial balances to run. PROPMAN maintains monthly and year-to-date data about properties. Historical data is also kept about past tenants.

PROPMAN does move-in and move-out prorates, calculates mortgage payments, schedules rent changes, and can also print three-day notices and rent change notices.

PROPMAN is completely menu-driven and has on-line help to guide you through its operation.

(PC-SIG Disk#'s 1179, 1180, 1452)

Special Requirements: *512K RAM and a hard drive.*
Author Registration: *$135.00*

User Comments: *"Clone of a very expensive program. Management program advertised nationally for many dollars." "It does a good job. Just what I wanted."*

■ Real Estate Systems

RES is an asset for any professional real estate office. It helps you maintain and organize information on properties for sale, as well as information on the agents in the company.

Keep detailed records of sales and search for pending/closed sales at any time. Keep agents' records of current/previous year commissions, add an agent, or search records of an agent. Generate valuable reports on office/agent commissions, projected income, pending/closed sales, and unsold property listings. An added feature is year-end processing, which purges all closed sales from the system.

Spend your time and energy on selling real estate and leave the tiresome bookkeeping to RES.

(PC-SIG Disk# 656)

Special Requirements: *None.*
Author Registration: *$25.00*

■ REIPS

Real estate professionals — Evaluate prospective real estate investments and keep track of them for your clients.

Evaluations are based on measurements produced by REIPS, such as the financial management rate of return, internal rate of return, net present-value profitability index, debt coverage ratio, and gross income multiplier. Compare these measurements with competing investments to help in making investment decisions personally or for clients. NOTE: The comparison between competing potential investments is the important concept, not an exact prediction of future results for an individual investment.

REIPS is designed around current Federal income tax law, although certain simplifying assumptions, such as those regarding the alternative minimum tax and passive losses, are made. The manual provides information in terms that are easy to understand.

(PC-SIG Disk# 860)

Special Requirements: *None.*
Author Registration: *$35.00*

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Real Estate Systems A real estate office management system with tracking and status of listings, sales, and commissions. See *Real Estate and Property Management.*
(PC-SIG Disk# 656)

Recipe Index System This system locates recipes for you — as in the title and page number of the cookbook that has a particular main ingredient. See *Food and Drink Preparation.*
(PC-SIG Disk# 1317)

Recipes More than 125 recipes for delicious food. Adjust serving sizes, print shopping lists, and print individual recipes as needed. See *Food and Drink Preparation.*
(PC-SIG Disk# 1210)

Recipes and Recipe Databases See *Food and Drink Preparation.*

Reconfig Helps you set up your AUTOEXEC.BAT and CONFIG.SYS, plus store up to 100 different configurations. See *Utilities, System or Hardware.*
(PC-SIG Disk# 1218)

Reconfig Reconfigure your AUTOEXEC.BAT and CONFIG.SYS files and store multiple versions for varying configurations and set-ups. See *Utilities, System or Hardware.*
(PC-SIG Disk# 1037)

Record Finder, The Organize your record, tape, or CD collection and quickly locate a particular piece of music. Print a catalog. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1276)

Records & Tapes Database RECORDS & TAPES organizes and catalogs all your records and tapes. Ideal for anyone with large collections, this database can store up to 400 albums on a single disk and up to 32,000 on a hard disk. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1413)

Records and CD's, Record Keeping See *Movie/VCR/Music Databases.*

Red Dog What are the odds of drawing a card that will be between the spread of the cards dealt by the house? Feel lucky? Then bet it all! See "Card Game Collection" listed under *Games, Cards*.

Red Planet Two years ago, the first man on Mars met the last inhabitants, found a treasure, and planned to steal it. Your job? Find him, find the treasure, and bring them all back to Earth. Great text adventure. See *Games, Adventure and Text*.
(PC-SIG Disk# 1073)

Reference Materials (books/articles/information/data)

■ Building Life-Cycle Cost program

The Federal Bureau of Standards has produced "The Federal Building Life-Cycle Cost Computer Program." This program compares various building systems and evaluates the cost of alternative designs relative to energy costs. Compare initial design and construction costs of various designs with projected energy costs recouped through the life expectancy of the building.

The FBLCC programs and data files provided are referenced in National Bureau of Standards Technical Note 1222, "A User's Guide to the Federal Building Life-Cycle Cost Computer Program." April, 1976. This program should not be used without the referenced user's guide available from the U.S. Department of Energy.

(PC-SIG Disk# 572)

Special Requirements: *None.*
Author Registration: *None.*

■ Business and Moral Values, 4th Edition

BIBLIOGRAPHY OF BUSINESS ETHICS AND MORAL VALUES has a list of periodical references, texts, books, syllabi collections, and audiovisual materials compiled by Dr. Kenneth Bond of Creighton University. This is the third edition and it is updated about every year and a half.

Some subjects included are: energy, environmental issues (strip mining, toxic chemicals and water pollution), worker issues (discrimination, sexual harassment, whistle-blowing, etc.), privacy, distribution of wealth, third world issues, and more. AN INCREDIBLE RESOURCE!

(PC-SIG Disk#'s 506, 1018)

Special Requirements: *None.*
Author Registration: *None.*

■ Code-Blue

If you tend to make long-distance telephone calls during periods of computer use, CODE-BLUE (CB) might be able to save you some of those annoying telephone company directory assistance fees!

CODE-BLUE is an on-line telephone area code reference system. No documentation is provided, or needed, with this system. It lets you cursor-select a state and get its telephone area code. For larger states, CB breaks down the area code listings to the city level. These city listings tend to include all the major population centers, but for area codes of smaller cities, you will still have call long-distance information.

(PC-SIG Disk# 1083)

Special Requirements: *None.*
Author Registration: *$14.95*

■ "Damn the Trivia - Our Priorities are Drowning," Edition II

More than just programs and data come on disks nowadays. The controversial new book "Damn the Trivia" fills two disks about Peoplesystems (PS).

Systems sort into two categories — systems for people — Peoplesystems (PS) — and systems for things — technology. There are also hybrid or mixed systems, but it's easier to first understand the pure, simple forms before looking at the more complex.

Peoplesystems (PS) are simple patterns of people events that guide, control, or affect our daily lives. This book is a discussion of how to create better Peoplesystems.

(PC-SIG Disk#'s 972, 973)

Special Requirements: *Printer.*
Author Registration: *$10.00*

■ DIVORCE - Animated Strategy for Men

CALIFORNIA DIVORCE is designed to educate men on their rights and the procedures they should know about and follow — in California — in case of a divorce.

This program presents a series of graphic screens along with text concerning the legal matters of divorce, and is written in a humorous manner, entertaining and educational. Since it was written by a man for other men, it does have a slight bias against women and marriage in general. Once viewed, the educated user can then choose a course of action on a self-help basis or with the assistance of legal counsel.

(PC-SIG Disk# 886)

Special Requirements: *360K RAM and CGA.*
Author Registration: *None.*

■ Economic Research's Cost of Living

Are you paid what your position and training should be earning you? This program clues you in on what you are really worth in the job marketplace. Or, if you are thinking of changing jobs and moving to a different part of the country, you can discover just how far your dollar will stretch in your new town BEFORE you commit to the transfer.

Drawing from surveys for over 4000 job positions conducted by the Economic Research Institute, CAN YOU LIVE ON YOUR SALARY? shows you tables and graphs illustrating national salary averages for your job and position based on geography, company size, and industry standards. This is invaluable information both for the person who wonders if he or she is being underpaid, as well as for the employer who wants to attract and keep the best people through competitive salaries.

For the company that recruits nationwide or stations personnel about the U.S. and Canada, this program is also an objective way to help set salaries and deal with varying costs of living. Using figures from 3000 communities, it asks for four pieces of information: names of the two cities or areas, the salary in the first city, and whether it includes bonuses or other factors. The program then tells you how much you'd have to earn in the second city to maintain the lifestyle to which you've become accustomed!

A wide variety of industries are included: agriculture, construction, engineering, wholesale and retail trades, professional, etc., ranging from top management to entry-level positions. The Institute provides quarterly updates.

(PC-SIG Disk# 1401)

Special Requirements: *None.*
Author Registration: *$92.00*

■ ERB

EXTERIOR RIFLE BALLISTICS (ERB) is an aid for those sportsmen who reload their own ammunition.

Determine expected bullet rise if the target is before the adjusted ZERO point, and bullet drop downrange beyond the adjusted ZERO point. It saves deciphering of ballistic tables to estimate the correct combination of powder and primer for a bullet.

(PC-SIG Disk# 1315)

Special Requirements: *None.*
Author Registration: *$5.00*

■ EthInves

ETHINVES is a biannual, published database and almanac filled with articles concerning ethical investing. This edition of ETHINVES includes lists of top defense and nuclear contractors, all the SDI contractors, companies still in South Africa, companies that own nuclear power plants, and financial profiles of several types of investment opportunities. Also included in this edition of ETHINVES are useful lists of bulletin boards, government phone numbers, readings for ethical investing, and the 100 best companies to work for in America. Other information includes how your tax money was spent by the government in 1987, and the full statement by

Rev. Sulliman concerning American divestment in South Africa.
(PC-SIG Disk# 1307)
Special Requirements: *None.*
Author Registration: *$20.00*

■ Filer Finder

FILER FINDER is an on-disk directory to information management software for microcomputers that primarily stores, indexes, manipulates, and retrieves textual data. This program has a searchable data file on over 500 pieces of information management software. The types of software in the data file include file managers, database managers, integrated software packages, bibliographic and indexing programs, on-line library catalogs, and others. The main program on this disk lets you search for programs in the data files by name, class, characteristics, comments, cost, manufacturer, operating systems, and number of fields available. After a search, you can send the results to the screen, the printer, or a disk file. The data files are in dBase III+ format.
(PC-SIG Disk#'s 1047, 1048)
Special Requirements: *380K RAM and two floppy drives.*
Author Registration: *$24.50*

■ Findata Corporate Profile

FINDATA CORPORATE PROFILE is a well-documented, two-disk set of data on over 5000 publicly-traded corporations. It operates as a database within either PC-File+ or dBaseIII, and also interfaces with either PC-Calc or VisiCalc.

Corporate data supplied includes: ticker symbol, name, address, city, state, zip code, telephone, president's name, type of industry, industry code, stock exchange code, year of latest data, company's fiscal year, annual sales, after-tax profits, earnings per share, average number of shares outstanding, sales margin, stock market price, and price-to-earnings ratio. This comprehensive package places a mass of data at your fingertips and uses the power and versatility of either PC-File+ or dBase III to manipulate it.
(PC-SIG Disk#'s 1051, 1052)
Special Requirements: *PC-File+ or dBase III, and a hard drive.*
Author Registration: *$55.00. Quarterly updates — $45.00 per quarter.*

■ Future Systems

FUTURE SYSTEMS is a book about systems and the direction that the author, Mark Nadir, believes they are headed. Covering general computer systems and the future design vision of the author, FUTURE SYSTEMS describes several types of large and small systems such as communication systems, computational systems, control systems, broadcasting, business, etc.

Calling his basic methodology "Positional Transduction Methodology," Mr. Nadir admits that the "experts" disagree with his conclusions. This is a controversial treatment of the subject for the serious reader.
(PC-SIG Disk#'s 1160, 1161)
Special Requirements: *None.*
Author Registration: *$35.00*

■ Maptab World Culture Database

MAPTAB is a menu-driven data-management program that lets you search for data on different cultures — their beliefs, practices, and regions across the world.

This version of MAPTAB has a partial but useful sample of the ethnographic data on 186 societies worldwide. 177 variables pertaining to these cultures are provided, including kinships, social structures, incidence of aggression, climactic information, and types of marriage customs. In addition to these items, the documented societies range in time from 1750 B.C. to present.
(PC-SIG Disk# 920)
Special Requirements: *None.*
Author Registration: *$30.00*

■ National Bureau of Standards Life-Cycle Cost

NATIONAL BUREAU OF STANDARDS LIFE-CYCLE COST (NBSLCC) performs thorough cost-analyses of buildings and building systems, and compares the economic performances of differing designs and alternatives.

It computes total life-cycle costs, net present value savings, savings-to- investment ratio and adjusted internal rate-of-return. It can apply to commercial and non-commercial buildings and includes income tax adjustments and financing effects in the analysis. Long-term energy price projections can be automatically retrieved for use in the LCC analysis of energy projects when you want them.

NBSLCC consists of an introductory program, five major modules, a worksheet and a stand-alone program called DISCOUNTs for computing discounted cash flows. NBSLCC is user-oriented — it prompts you for data and assumptions, advises you when entries appear improper, lets you make changes to input data files, and allows you to move by menu selection.

(PC-SIG Disk# 983)

Special Requirements: *Printer.*
Author Registration: *None.*

■ Radiation

RADIATION EXPOSURE CALCULATOR calculates your approximate yearly radiation exposure from a variety of sources, including your computer monitor! The radiation data used by this program was compiled from a recent study by the Department of Commerce.

(PC-SIG Disk# 1432)

Special Requirements: *None.*
Author Registration: *$6.00*

■ Radio Repair

"Who knows what evil lurks in the hearts of men? The Shadow knows!" Old radio shows are again playing on the air, capturing the ears and imaginations of a generation that has never heard of a cat's whisker tuner or a carbon arc transmitter! Now, what could be better than listening to these great moments from the Golden Age of radio on an antique radio you've restored yourself?

RADIO is a preliminary course on "How to service and restore antique radios." Fixing up old radios can be a rewarding hobby, particularly as antique radios have become collectors' items! The quintessence of nostalgia, many of these old radios are lying around in attics and at junk shops — waiting for someone to see past the dust and bring them back to life!

This how-to booklet on disk reveals the simple test equipment you will need and guides you, step-by-step, through the process of checking and repairing each component of an antique radio to restore it to top-notch condition. A vacuum tube guide is provided, as well as the RMA color code for power transformers, audio-frequency transformers, intermediate-frequency transformers, and speaker field coils.

(PC-SIG Disk# 1432)

Special Requirements: *Wordprocessor, text editor, or file browser to read the file.*
Author Registration: *$5.00*

■ Select-A-College

SELECT-A-COLLEGE sorts through over 1000 accredited two-year and four-year colleges and universities based on criteria you select, and tells you the 25 schools that come closest to meeting your requirements. Factors you can select include: major field of study or degree, specific courses, maximum tuition, maximum room and board costs, desired geography, Master's or undergrad programs, and more.

Processing takes around six minutes, and can save you hours of research. Includes an automatic letter-writing feature for contacting the schools to request further information and application materials. Surprisingly, some of the best-rated schools in the nation have some of the lowest tuitions. Good news for parents!

(PC-SIG Disk# 1345)

Special Requirements: *None.*
Author Registration: *None.*

■ Storm

STORM is a hurricane-tracking program which lets you enter data on new storms and track up to four storms at a time on a map of the Atlantic, Gulf, or Caribbean in either CGA, EGA, or VGA resolution.

STORM is menu-driven and uses beautiful graphics to display the maps and storm-tracking data. The main menu allows you to configure the program to your adapter, monitor, and plotter types. The program comes with five historical storm tracks and you can enter data for a storm not yet on the disk. You can update and/or print storm data. You can also plot a storm on the screen, dot matrix printer, or HP plotter. The program has on-line help that guides you along.

(PC-SIG Disk# 1372)

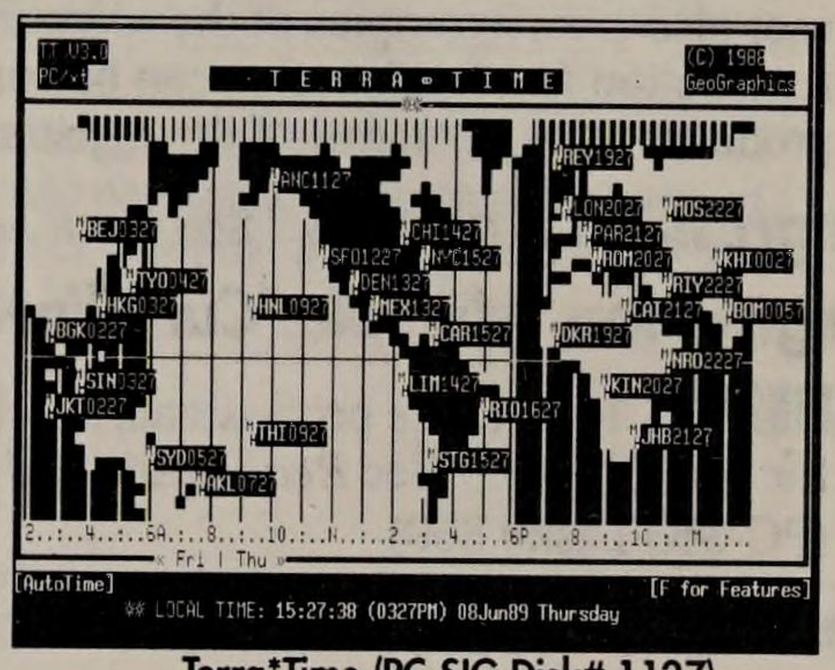
Special Requirements: *CGA.*
Author Registration: *$25.00*

■ Terra*Time

TERRA*TIME tracks and displays the local time in as many as 44 cities around the globe.

It considers not only time zone effects, but also daylight savings time at each city. Information comes up on a full-screen, color, non-graphics display. Windows and menu-driven commands are used for program modifications, and program options let you tailor the display for their specific needs. As many or as few cities as you want can be displayed. Military or 12-hour clock can be selected and the layout of the world map can be varied to suit you.

Additional program features include time zone differences, great circle distances between cities, and a special alarm feature that can be set for any world city time.



Terra*Time (PC-SIG Disk# 1127)

Terra*Time (PC-SIG Disk# 1127)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Virtual Library, The

This is THE VIRTUAL LIBRARY, a book about the electronic society of the future, based on an archival interpretation of human cognitive development.

The book discusses how the electronic society will trigger new developments in knowledge and education, and explores other changes which might develop from an easily-accessed databank: how research is done, how academic and scientific findings are published and read, how knowledge is transmitted, and how people relate to each other.

(PC-SIG Disk# 979)

Special Requirements: *None.*
Author Registration: *$5.95*

■ Zip Insulation

Save money on your home's heating and cooling bills! The National Institute of Standards and Technology wrote this program to help you determine how much insulation your home really needs to be both comfortable to live in and provide you energy savings of at least a seven percent return over inflation on your cost of insulating.

To have the program calculate your insulation needs for having a warmer/cooler, more energy-efficient home, you simply answer a few basic questions: whether your home is new or used, what components can be insulated (such as attic, walls, floor), cost of insulation, how your home is heated and air-conditioned, and the efficiency of your furnace.

(PC-SIG Disk# 1468)

Special Requirements: *None.*
Author Registration: *None specified.*

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REFLIST Writers — Create lists of references, bibliographies, and footnotes for your work. Great for authors of scientific and technical manuscripts. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 231)

Refund Know how many refunds are sent out and how many more have been collected. Analyze by type, date, or user-defined code. See *Home Management.*
(PC-SIG Disk# 1323)

Refunds, Record Keeping See *Home Management.*

Registration, Shareware The process whereby a satisfied shareware user pays a required fee to the program author. Unlike most software sales, the payment is generally made after the user has tried out the program and decides he wants it. The support an author gives in return can range from none, to full printed documentation, telephone-based technical support, and notification of updates and upgrades. At times, the user also receives copies of the software which contain expanded features and capabilities, in return for the registration fee. Registration can be construed as a license for a user to permanently use a shareware product within the terms of the registration.

Regression Analysis See *Math and Geometry Programs.*

Regression, Multiple/Curvilinear/Linear See *Statistical Programs.*

REIPS Real estate professionals — Evaluate prospective real estate investments and keep track of them for your clients. See *Real Estate and Property Management.*
(PC-SIG Disk# 860)

Relational Databases See *Databases.*

RELIANCE MAILING LIST A well-rounded mailing list manager with many options for functions such as data format, mailmerge, search and selection, sorting and printing. See *Mail Lists, Address Managers, and Telephone Organizers.*
(PC-SIG Disk# 503)

Remember-It Ensure that important dates are not missed! Birthdays, anniversaries, mortgage payments — know when they are coming due with this datebook. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1217)

Reminders A date book based on a perpetual calendar and a tickler file. You need never miss another important date or event. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1162)

Remote Access, Communications See *Communication Programs.*

Reorders and WedPrice Photographers — store photograph order/reorder data and make price estimates for wedding pictures. See *Photography.*
(PC-SIG Disk# 937)

Repair Service Record Keeping See *Business Specific Systems.*

Restore See Backup

Resumebest The first thing most employers see of us is our resume. We need to take care that it is the best we can present. RESUMEBEST can help you create a good-looking, properly-prepared resume. See *Resumes and Job Search.*
(PC-SIG Disk# 1097)

Resumes and Job Search

■ Apply

Keep track of the applications (for jobs, grants, contests, etc.) you have sent out. APPLY stores the relevant data and merges it with text files you create. It orders dossiers and prints your letters, resumes, and envelopes. APPLY also maintains a record of any past experiences you might have had with the person/institution.

(PC-SIG Disk# 1005)

Special Requirements: *A printer and SORT.EXE and FIND.EXE from your DOS diskette.*
Author Registration: *$10.00*

■ Resumebest

For most of us, the first thing a prospective employer sees of us is our resume. This is truly a First Impression and we should take care that it is the best we can present. RESUMEBEST can help you create a good-looking, properly-prepared resume.

RESUMEBEST presents several different formats. You choose the one that best fits your past experience and the particular job you are looking for. Not only does it show what you should do for each resume section, but it also gives information concerning the proper order of presentation, the correct wording, the amount of copy you should write, the type of paper to use, how to make a cover letter, and more.

(PC-SIG Disk# 1097)

Special Requirements: *A version of BASIC and a printer.*
Author Registration: *$29.95*

User Comments: *"Resumebest is the best. Easy to use and well documented."*

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Reverse Polish Notation See *RPN (Reverse Polish Notation).*

RGB^Techwriter Wordprocessor for engineers, scientists, students and other technical writers who need to include equations and scientific symbols in their documents. See *Word Processors, Text Editors, and Outliners.*

(PC-SIG Disk# 1368)

Rifle Ballistics See *Reference Materials (books/articles/information/data).*

Ringweilder An adventure like you've never seen. Get together with your friends and let the characters take over your actions. Not a computer game; consists of a text file used for role-playing. See "GameScape, Space Slug, Marooned & Ring" listed under *Games, Adventure and Text.*

Roam An interface that provides an expanded command line and file manager to enhance the organization, control, and use of the computer and its files. See *DOS Shells.*

(PC-SIG Disk# 1151)

Rocket Programs A trio of programs applicable to the performance of rockets and gliders, and the air in which they fly. See *Astronomy and Space Exploration.*

(PC-SIG Disk# 921)

Rockets See *Astronomy and Space Exploration.*

Rokmar HouseHold Inventory An inventory log program for keeping track of your personal belongings and your company assets. See *Home Management.*

(PC-SIG Disk# 1227)

Role Playing Games See *Games, Adventure and Text.*

Rolodex See *Mail Lists, Address Managers, and Telephone Organizers.*

ROM (Read-Only Memory) This non-changeable computer memory is contained in chips and is retained when the computer is switched off or loses power.

Root Directory The main directory from which all subdirectories branch in a disk directory tree structure. It can be thought of as the trunk from which all the subdirectory branches stem.

Rosewood Journal A menu-driven sales journal and accounts receivable program designed for small- to medium-sized businesses. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 1309)

Roulette Do you want odd or even, or do want every number above 15? If the ball lands on your bet, you win! See "Follies" listed under *Games, Arcade.*

Route Management, Vehicle See *Auto/Vehicle Management.*

Routine/subroutine A set of computer instructions designed to carry out a specific task. Usually a programmer will refer to a piece of programming as a routine or subroutine when it is one part of a larger program.

RPN RPN is a Reverse Polish Notation calculator based on a fully-visible stack. See *Calculators.*
(PC-SIG Disk# 874)

RPN, Reverse Polish Notation Polish notation is a way of writing algebraic expressions that tell which operations should be done first, without the need to use parentheses. Because the expressions are written in reverse order from what they would be using parentheses, it gained the name of Reverse Polish Notation. Engineers view it as a more intuitive way to solve problems and has been used on HP calculators. It was so named to honor its inventor, Jan Lukaisiewicz, whose name was difficult to pronounce. For programs, see *Calculators.*

RS232 File Transfers See *Communication Programs.*

RTTY and TTY See *Ham Radio.*

Rune-Caster The casting of runes is an ancient, but still popular, method of divination. Explore this art for further personal understanding and growth. See *Astrology and Fortune Telling.*
(PC-SIG Disk# 1173)

Running and Jogging See *Sports Management.*

S

SageWords A sophisticated wordprocessor with advanced features: macros, intuitive menus and extensive instructions. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 1170)

Sales and Prospect Management

■ Front Office, The

THE FRONT OFFICE (TFO) is a control system for prospecting, sales management, sales order processing, job costing, and profit analysis. Although designed for direct-sales businesses, it can be easily adapted to many other types of enterprises.

TFO is menu-driven wherever possible and uses a single data-entry system for all data. Data entered in one area is automatically copied to all other applicable areas — cutting down on data-entry costs, time and errors. The 72 modules are designed to run on the Foxbase Runtime, which is included. Complete and thorough documentation is provided.

(PC-SIG Disk#'s 697, 698)

Special Requirements: *Hard drive and a printer.*
Author Registration: *$99.00*

■ IN-CONTROL

A well-rounded business prospect/contacts and activity-tracking system. IN-CONTROL provides a Rolodex, activities list, management reports, expense reports, and an appointments tickler.

Everything is on-line, with fast search capabilities. The Rolodex features names, addresses, and notations retrieval and a graphic "layer-in" ability which lets you temporarily merge mailing lists. In addition, it is network-ready. The system also includes: appointments tracking, expenses, graphics, free-form data search, labels management, and reports. A built-in telephone dialing system uses your modem and frees your phone for incoming calls. A built-in proposal and invoice generator is provided. The program standardizes your prospecting and follow-up information and converts forgotten verbal commitments into a focused daily appointments and callback list that nets you extra business.

(PC-SIG Disk#'s 687, 688)

Special Requirements: *512K RAM.*
Author Registration: *$99.00*
User Comments: *"Very good systems."*

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Satellite Programs Determine the location of several Earth-orbiting satellites. See *Astronomy and Space Exploration.*
(PC-SIG Disk# 921)

SBW Manage customer information, human resources, accounting, inventories, and production with this integrated business management system. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk#'s 1094, 1095)

SCAN SCAN any file, including EXE and COM files, for ASCII text (messages, screen output, etc.). See "FLU-SHOT+ and More" listed under *Security — File, Disk, or System.*

Schedule Magic Routers and Dispatchers — automatically calculate and optimize daily vehicle routes and schedules. See *Auto/Vehicle Management.*
(PC-SIG Disk# 1098)

Schedulers, Calendars, To Do Lists, and Ticklers

■ Ample Notice

AMPLE NOTICE is a calendar and alarm clock program that helps organize your schedule of appointments. Appointments and notes are entered into a standard text file in any of a variety of simple formats. Each day, you view a calendar of commitments taken from this file. This text file can be edited from within the program or from an ASCII wordprocessor.

Appointments that include a time can automatically set a pop-up alarm clock to notify you at a given advance interval. Print a specified range of dates to keep track of your appointments while away from your computer. These can be in a variety of print styles including a "tiny" option of very compressed listings for your wallet or purse. You can also print a calendar for any range of months for a particular year.

(PC-SIG Disk# 872)
Special Requirements: *Printer.*
Author Registration: *$30.00*
➤***ASP member.***

■ DFStickl

A menu-driven, calendar/tickler program designed to display certain previously-entered memos on certain dates.

Once the program is called, the screen immediately shows you any memos for that particular day. DFSTICKL can also be executed by putting this file in an AUTOEXEC.BAT file so the memos for that day will be displayed upon start-up. After you've read them, exit to DOS and get on with your business.

DFSTICKL is designed to remind you of personal priorities, important dates, and things that need to be done for the day. There is a "nag" option that will haunt you about a certain memo five days prior to the date or deadline.

You can add, edit, delete, and display any memos in the system. This program is very useful not only for personal use, but also for leaving notes, memos, and reminders to the other people who use the same computer.

(PC-SIG Disk# 818)
Special Requirements: *None.*
Author Registration: *$5.00*
User Comments: *"Well-designed. It's become indispensable." "An excellent, easy-to-use tickler program for the unorganized procrastinator. Just what I needed."*

■ Flexical

FLEXICAL tracks your business or social engagements and events, with up-to-date efficient and flexible calendars — complete with explanations of where to go, what to do, and when to do it. You will always have a calendar on your desk or wall, available to go with you when you travel. The calendars expand to hold as many events as you choose, for any time period, with as many details as you want. Print on standard 8-1/2" x 11" paper.

The FLEXICAL system has two different types of calendars, the engagement calendar and the annual calendar. Both are used to plan a new engagement. The annual calendar gives you an overall view of the year, the engagement calendar shows you which time is free. When making engagements while away from your computer, make notes on your paper copy for later data entry. You can mark the annual calendar as you please, knowing that you can always print a new one whenever you like.

Calendars can be kept for as many people or purposes as necessary. Events are presented on-screen and printed in date order, with up to 20 lines of description per event. Reschedule any event, change its description, or delete it. Repetitive events can be entered once and are repeated each time period.

FLEXICAL also keeps track of your runs or hikes and gives both summaries and detailed reports for up to 20 runners for any time period. Details include route descriptions, elevations, and average speeds.

The calendars and the runner's diary are independent of each other and can be used individually or together.

(PC-SIG Disk# 1106)
Special Requirements: *384K RAM, printer, and two floppy drives.*
Author Registration: *$20.00*

■ H&P Calendar

H&P CALENDAR creates a monthly calendar on screen with graphic designs or a yearly wall calendar without graphics.

Edit the monthly calendar by using the arrow keys to move the cursor anywhere on the screen to enter holidays, special dates, anniversaries, etc. When the calendar is completed, it is dumped to the printer using DOS "GRAPHICS.COM." A database is included to save the data to disk. The data for a particular month may be printed before filling in the boxes.

(PC-SIG Disk# 995)
Special Requirements: *CGA.*
Author Registration: *$5.00*

H&P Calendar (PC-SIG Disk# 995)

■ Instacalendar

INSTACAL can produce a full-page calendar for any month, or entire year, from 1600 to 2050 A.D. You can print the calendar or show it on the screen. The documentation is brief, but gives all the help needed to use the program.

(PC-SIG Disk# 709)

Special Requirements: *Printer.*
Author Registration: *$1.00*

■ Judy, the Memory Resident Calendar

We've all wanted a personal secretary to keep track of our appointment schedule for us. Let PC-SIG introduce you to our answer to your wish: JUDY CLONE, a memory-resident desktop organizer that keeps your schedules and appointments for years to come.

JUDY maintains the full-screen interactive calendar. She takes appointments, has editing functions, makes hard-copy, and goes through your notes and records, doing the daily filing tasks. She fills your computer's memory, does her job, leaves and then returns her space to the memory pool. She even wishes you "Happy Birthday" when that day rolls around.

(PC-SIG Disk# 848)

Special Requirements: *None.*
Author Registration: *$29.95*

■ MakeMyDay

A quartet of time-management systems for today's super-busy people. Beat Father Time at his own game.

APPOINTMENT CALENDAR lets you keep track of ALL of your appointments. Never forget another meeting or dinner engagement.

JOB SCHEDULER maintains your "to-do" list, in categories you define. Print a work-in-progress report the next time the boss asks, "Where are we on the Wombat project?"

EXPENSE ACCOUNT MANAGER monitors your expenses and provides the detailed account information necessary in the categories you specify.

TIME LOG tracks the billable time you spend on each client or project and provides the necessary documentation when you need it. Attorneys, accountants, consultants, and other service professionals will appreciate it.

(PC-SIG Disk# 618)

Special Requirements: *None.*
Author Registration: *$50.00*
➤***ASP member.***

■ Moe

A memory-resident datebook/desktop manager, MOE schedules events, reminds you of appointments, logs expenses and time, acts as a calculator, maintains and dials phone numbers, lets you establish lots of pop-up databases and lists, and offers an easy way to send printers new codes.

MOE schedules upcoming events, allowing up to 20 daily memory prompts, with alarms. It maintains up to 1,000 expense and time entries by project. The pop-up calculator offers a 20-line tape and the ability to transfer results to your wordprocessor or text editor. It does basic calculations, plus exponentials and inverse, and offers two memory keys.

You get a pop-up phone directory that dials for you, helps you with communications, and even prints mailing labels. You can establish numerous mini-databases, such as to-do lists and general ledger account numbers, and search them if needed. Sending codes to change printers, fonts, or format is made easier.

(PC-SIG Disk# 1225)

Special Requirements: *Hard drive.*
Author Registration: *$50.00*

■ PAL

PAL is a handy scheduling tool as well as a to-do list generator. PAL shows you sorted lists of upcoming appointments to help you use your time more efficiently and remember vital appointments.

PAL maintains a to-do list which prods you if you fail to do something after a specified date. You can set a virtually infinite number of alarms. PAL automatically repeats appointments and deletes old appointments. Secular and religious holidays are automatically displayed. You can also display calendars for any month in the 20th or 21st century.

Help is on-line from any place in the program. PAL can also interface with SIDEKICK appointment files.

(PC-SIG Disk# 1259)

Special Requirements: *Hard drive.*
Author Registration: *$49.95*
➤***ASP member.***

■ PC-Tickle

Who's in charge here? In today's hectic world, sometimes it's hard to tell. At least you can be in charge of your own life and here's something to help you with that!

PC-TICKLE is an appointments calendar/checkbook manager/record keeper that can help you organize your schedule by tracking important appointments and dates, with reminders at the appropriate time. It also keeps track of checkbook expenditures and can even be used as a calorie counter. It comes with its own "mini-editor" program to let you edit files.

(PC-SIG Disk# 576)

Special Requirements: *None.*
Author Registration: *$29.95*
➤***ASP member.***

■ ProDex Plus

If your telephone is your livelihood, PRODEX-PLUS may ring your bell by combining a telephone directory, report log, and things-to-do scheduler to make you more productive.

Names and phone numbers of your personal and business contacts become a snap to keep track of and change as needed using the automatic Telephone Directory function. Auto dial is also included.

The report log allows you to record the date and time of calls, and make "folders" which act as electronic notepads and mini-data files for keeping track of important information and follow-up on your phone conversations.

The things-to-do scheduler lets you set appointments, plan activities, and there are ticklers to remind you of dangling commitments.

With PRODEX-PLUS, you can selectively sort and print mailing labels, address lists, phone directory lists, to-do lists, and folders. The program is memory-resident and so stays out of your way until needed; it is menu-driven for ease of use.

(PC-SIG Disk# 1248)

Special Requirements: *None.*
Author Registration: *$35.00 to $50.00*

■ Remember-It

REMEMBER-IT is a multi-featured date/memory manager that ensures important events. Payments due, billings, birthdays, or (heaven forbid) anniversaries are not forgotten.

Business associates, relatives, friends, and others will be impressed at how thoughtful and organized you are by remembering those important dates year after year; you need not give the credit to your computer.

More than a calendar, REMEMBER-IT searches your list of events and, when the date is within your predetermined warning window, alerts you that the event is coming up. Only events that are pertinent to a particular day's warning window are displayed. You do not have to scan your calendar ahead for upcoming events.

This program is not memory-resident, but is designed to run every time your computer is powered up. Events within the warning window will be displayed and you may continue on to other applications with one keypress or utilize several other program functions before exiting REMEMBER-IT.

Program functions allow reminders to be entered based on annual, one-time, or monthly frequency. Additional features include a calendar capable of displaying any month in a 200-year period, a date computer that will determine a date future or past from your given number of days, and a Julian day calculator. Documentation is included.

(PC-SIG Disk# 1217)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Reminders

Completely menu-driven, REMINDERS is a perpetual calendar, coupled with a tickler file for reminding you of important activities and dates. All date reminders are organized on a month and day of date basis: enter a date for a birthday, anniversary, or accounting deadline once, and that date reminder is shown on the correct day of the month, year after year.

Ten codes are used to group reminders under specific headings such as holiday, birthday, meeting, deadline, etc. REMINDERS can be displayed or listed to the printer by date, code, date range, code and date range, or in summary form, and calendar format, for any one month. REMINDERS is ideal for clubs, groups, organizations, or for use as a personal appointment/activity calendar.

(PC-SIG Disk# 1162)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Supercal and EGAcal

SUPERCAL and EGACAL are calendar programs that let you keep track of dates and print out monthly and yearly calendars. Both programs are the same, but EGACAL takes advantage of EGA monitors and displays 43 lines on the screen. When first started, the program reads the date from DOS and immediately shows the month and puts the cursor in the box for that day. Holiday and historical information for every day of the year can be displayed, and the programs can also print out a yearly calendar on one sheet of paper for any year after 1903.

(PC-SIG Disk# 1308)

Special Requirements: *An EGA card for EGACAL and a printer for both programs.*
Author Registration: *None.*

■ Thi User Library

This program is a reminder list of things to do. It has a future reminder section, a current section, and an archive or history section. It can display all jobs currently active and you can set the option to sort the listing by function or priority. You can review a selected list of things to do or jobs. You can also add jobs. The jobs can be edited and saved in a history file or simply erased. You can also move a job from the current section to the future section. The effective date can be chosen relative to the current date or by entering the date directly. Some other miscellaneous functions are print, change sort order, remove a function, and more.

(PC-SIG Disk# 1114)

Special Requirements: *None.*
Author Registration: *None.*

■ TickleX

TICKLEX is an integrated tickler, scheduler, and To-Do list that can handle simple project management tasks.

TICKLEX handles appointments, deadlines, expectations, reminders and timetables, with each item having up to four reminders linked to it. Linking reminders to appointment deadlines or expectations is helpful when you need to change the original date. When a change is made, all the linked reminders are automatically changed. Two more handy features — find the day of the week for any date in the next half-century, and set up to 20 alarms for any day.

(PC-SIG Disk# 934)

Special Requirements: *390K RAM and a hard drive.*
Author Registration: *$50.00*

User Comments: *"TICKLEX is an excellent package. Linking docket entries and reminders is a great time saver."*

■ Tikler

If you are faced with the problem of organizing and remembering many appointments and dates, TIKLER will be of great assistance.

This menu-driven scheduler generates full or partial print lists and lets you view events, even past ones, on the screen. Four distinct delete options are provided. You can delete all events prior to a certain date, selectively delete one event at a time, delete a single event, or delete all the events.

(PC-SIG Disk# 1308)

Special Requirements: *None.*

Author Registration: *$10.00*

■ TimeStar

TIMESTAR is an ambitious daily scheduling program which makes the desk calendar obsolete.

Keep track of all of your daily time commitments. Entering individual items is as simple as noting on a desk calendar. There is a great deal of flexibility, in that an event can occur in a specific or "floating" time frame. Rescheduling events is a matter of one or two keystrokes. Daily, weekly, monthly, or even annually recurring events can be added automatically to the system, saving repetitive entries. Comments can also be associated with events using TIMESTAR's helpful notepad editor.

TIMESTAR will generate printed reports of up to three months of activity and automatically saves past events for easy retrieval. Since TIMESTAR is a MS Windows application, it can be run quickly from any other Windows application, is easy to use, and is mouse-compatible. This program is the cure for the congenitally disorganized.

(PC-SIG Disk# 1481)

Special Requirements: *Microsoft Windows.*

Author Registration: *$89.00 or $199.00 includes manual.*

■ ToDo

Keep a "things to do" list in your computer AND in your pocket where you need it.

Each item or activity is a maximum of 38 characters to insure that the printout will fit into a daily diary or "day-timer"type format. TODO automatically loads your list of up to 100 items when you run the program and stores any changes you make on the list. When you finish, TODO sorts your items by due date first, then by priority, then by key. If this sort pattern does not fit your needs, you can customize it.

(PC-SIG Disk# 917)

Special Requirements: *Printer.*

Author Registration: *$25.00*

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Scheduling, Employee Shift See *Personnel Management.*

Schematics See *CAD (Computer Aided Design) and Designing.*

SCI-Calc SCI-CALC is a scientific calculator with a simple, direct approach. See *Chemistry and Physics.*
(PC-SIG Disk# 1326)

ScnDsign In Turbo Pascal, designing screens for data input is a tedious task. SCNDSIGN quickly designs screens for you and creates the Pascal source code. See *Programming, Pascal.*
(PC-SIG Disk# 1092)

Scout SCOUT is a memory-resident disk file manager you can customize to your liking. Define your paths and your favorite applications and change your options at any time. See *DOS Shells.*
(PC-SIG Disk# 895)

SCRDES A full-screen text/graphics editor designed for the coding of custom screens. Primarily for use in Assembly language programming. See *Programming, Tools.*
(PC-SIG Disk# 1303)

Screen Blankers See *Utilities, System or Hardware.*

Screen Designers See *Programming, (Specific Language).*

Screen Generators See *Programming, (Specific Language).*

Screen-Do Design and edit screens that can be used by BASIC programs. See *Programming, Tools.*
(PC-SIG Disk# 1118)

Screen-Print Bar/Line Graph Make bar or line graphs that you can display or print. See *Graphing Programs.*
(PC-SIG Disk# 1027)

Script Languages See *Communication Programs.*

Scripts, Movie and Video See *Word Processor and Text Utilities.*

Scriptures See *Bible Study.*

SCRNOFF3 & KYLOCK A pair of protective programs — blank your screen after three minutes of inactivity to prevent screen etching, and lock your keyboard to prevent others from getting into your computer. See *Utilities, System or Hardware.*
(PC-SIG Disk# 779)

SCUBA Diving See *Sports Management.*

SDB A relational database system written to provide a low overhead system for storing data. Includes C source code. See *Programming, C.*
(PC-SIG Disk# 147)

SDL List and sort your directories in a variety of ways, i.e., alphabetically, 4-column mode with date and file size, by date, etc. See "Dos Utilities 16" listed under *File Management Utilities.*

Search and Replace See *Word Processors, Text Editors, and Outliners.*

Search Light BBS A powerful bulletin board system that's both user- and manager-friendly. See *Bulletin Board Systems (BBS).*
(PC-SIG Disk#'s 1136, 1137)

Searching, Text See *Word Processor and Text Utilities.*

Secret Quest 2010 You and your friend are on your way home to Earth, at last. The ship is finally in orbit around Earth and your friend disappears! An adventure game with traps for the unwary. For the IBM-PCjr. See *Games, Adventure and Text.*
(PC-SIG Disk# 633)

Sector Editing See *File Management Utilities.*

Securities See *Investment Management.*

Security — File, Disk, or System

■ b-Crypt

A peace of mind program, B-CRYPT is a file encryption/decryption utility to protect your data files from unauthorized access. Whether sensitive personnel files, confidential financial data, or super secret research information, this program prevents prying eyes from gaining access. It will put the lock on any MS-DOS file structures, including hidden files, no matter what the extension reads.

You supply a password and it converts your data into an incomprehensible binary form based on a pseudorandom algorithm. With a password from five to 32 characters in length, the chances of someone breaking the code file are greater than one to the 256^32. And that assumes the hacker has a copy of B-CRYPT. To complicate matters, you can encrypt a file more than once.

With lots of documentation and screen help, the program is painless to use, and fast: a 17K hard disk file is processed in from 10 to 40 seconds, depending on your PC's speed. A RAMdisk further speeds up encryption and decryption.

The author includes a challenge: break his encrypted message and win a cash prize!

(PC-SIG Disk# 1382)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Encode/Decode

ENCODE/DECODE gives you an efficient way to encrypt and decrypt sensitive and company-private information. Protect spreadsheet's source code, wordprocessor documents, data files — in fact any file at all. If your data is valuable, secure it with ENCODE/DECODE.

(PC-SIG Disk# 482)

Special Requirements: *None.*
Author Registration: *None.*

■ FLU-SHOT+ and More

Many computer users are now worried about how they can protect themselves from the viruses and Trojan Horses that are out there — just waiting to attack an unsuspecting system.

Here's a disk full of programs to help you in that fight. One of the programs lets you write-protect your hard disk before you try any new software, thus keeping viruses off it.

FLUSHOT+ lets you write-protect entire classes of files, such as all your files ending with .EXE or .COM. It also lets you check individual files for problems, keeps track of these files, and tells you if anything has changed when you check them a second time. FLUSHOT+ even tells you when a program has inserted something into a memory-resident mode, thus alerting you to the kind of viruses that wait in memory before they strike.

A second program, HDSENTRY, sets itself up in memory and monitors all commands sent to the hard drive of your system. If the command is potentially harmful in any way, such as if it tries to write to the drive or erase a file, HDSENTRY intercepts the command and prompts you for continuation.

(PC-SIG Disk# 1119)

Special Requirements: *Hard drive.*
Author Registration: *$10.00 to $20.00.*

File Descriptions:

CRYPT	BAS	File encryption program.
DISKTOOL	DOC	Documentation.
DT	COM	DISKTOOL main program.
DT	PIF	DISKTOOL data file.
F	EXE	Allows you to change file attributes.
FINDHIDE	COM	Finds hidden files.
HIDE	COM	Finds files.
LOCK	COM	Write protects your hard disk.
LOCK	DOC	Documentation.
SCAN	EXE	Scan file for ASCII text (messages, screen output, etc.).
SDIR5	COM	Super-directory program (sorts, changes attributes, etc.).
SDIR5	DOC	Documentation.

UNHIDE	COM	Unhides programs and files.
XWORD221	DOC	Documentation.
XWORD2.3	EXE	File reformatter.
———	—-	FLU SHOT+
$READ-ME	1ST	Introductory file.
$toc		Text file.
F_FEED		Used by PRINT.BAT.
FLU_POKE	COM	Allows you to rename the FLUSHOT.DAT file to hide it.
FLUSHOT	DAT	A generic table of what programs to protect.
FSP	COM	Main program.
FSP	TXT	Documentation.
HARDWARE	TXT	Text file.
MY_OWN	CPY	Text file.
PRINT	BAT	Batch file which prints all readable items on this disk.
RAMNET	TXT	Text file.
REGISTER	TXT	Registration form.
REWARD	FRM	Text file.
REWARD	LST	Text file.
THE_COOP	TXT	Text file.
UPDATES	TXT	Update history of the program.
———	—-	HDSENTRY
HDSENTRY	ASM	Source code.
HDSENTRY	COM	Main program.
HDSENTRY	DOC	Documentation.

■ Login

LOGIN restricts access to the computer by requiring each user to enter an authorized user name and password.

A menu with up to 45 choices is then displayed, from which each person can execute programs and DOS commands. Users can temporarily exit the program to DOS to do other functions. If nothing is done by the user after a certain amount of time, LOGIN automatically logs off the user and blanks the computer screen. Each time a user makes a selection, LOGIN asks whether it is for business or personal use and the user is allowed to make a short comment. After the user is done and logs off, LOGIN records everything that was done into a special text file. This text file lists the user's name, date and time of each action, menu choice that was selected, whether or not it was for business or personal use, and a short comment by the user. LOGIN automatically creates separate monthly log files, according to the date entered when the computer boots up.

(PC-SIG Disk# 1146)

Special Requirements: *Hard drive.*
Author Registration: *$25.00*

■ Memoirs4 Diary

We all need a private place to keep our thoughts and notes, a place safe from prying eyes. At one time, it was a small book with a lock on it. But with the advent of the computer era, a better way has been found.

MEMOIRS is a private diary program that lets you encrypt your personal diary and store each encrypted line on disk as fast as it's typed. The encryption method is quite fast and effective, with no redundant patterns — thus making it virtually impossible to crack the code.

MEMOIRS also encrypts and decrypts ASCII text files or documents. As with the personal diary, you can watch the encryption taking place.

(PC-SIG Disk# 756)

Special Requirements: *None.*
Author Registration: *$29.00*

■ PC-Cryp2

Is computer security important to you? Look into PC-CRYP2. First, it explains and demonstrates the Vernam encryption and decryption process of using a password as a numeric seed for encoding computer information. Second, it performs the encryption and decryption of your files.

No one will be able to access your data except you!

(PC-SIG Disk# 709)
Special Requirements: *None.*
Author Registration: *$15.00*

■ Protect and Unprotect

Frustrated by copy-protection schemes? Here's a gold mine of information about running copy-protected and "key-disk" programs from your hard disk. Save your original as a backup. Step-by-step detailed instructions walk you through a DOS "debug" session that lets you easily use over 30 of the most popular copy-protected software products. (Check the file listing.) Get the most out of the software you own.

(PC-SIG Disk# 414)
Special Requirements: *None.*
Author Registration: *None.*

File Descriptions:

ALTER	COM	Program to allow user to change file attributes.
COPYPC	COM	A more intelligent alternative to DOS DISKCOPY program.
COPYALL	COM	Disk-saver program : copies most disks.
CHARTMAS	UNP	Procedure on how to unprotect Chartmaster v6.04.
ALTER	DOC	Documentation for ALTER.COM program.
DB3ZAP	BIN	Overlay file needed by DB3ZAP.BAT.
DB3ZAP	BAT	Provides an executable backup copy of dBase III.
DB3V30	DOC	Documentation for all DB3???.* unprotection methods.
DB3V30	BIN	Overlay file needed by DB3V30.BAT.
DB3V30	BAT	Batch file to unprotect dBase III v1.0, Edition 2.
DB3V21	BIN	Overlay file needed by DB3V21.BAT.
DB3V21	BAT	Batch file to unprotect dBase III v1.0, Edition 1.
COPYPC	DOC	Documentation for COPYPC.COM program.
INFOCOM	DOC	Documentation for use of INFOCOM.COM program.
INFOCOM	COM	Utility programs to operate on Infocom games (Zork).
GRAFWRTR	UNP	Procedure to unprotect Graphwriter v4.21.
FRMWK1	UNP	To create executable backup copy of Framework v1.0.
FRMWK1	DOC	Documentation for backup of Framework v1.0.
FRMWK1	BAT	Creates executable backup copy of Framework v1.0.
FOCUSNEW	UNP	Eliminates need for "activator" disk in A-drive.
FLTSIM	UNP	Procedure to unprotect Microsoft Flight Simulator v1.00.
FLTSIM	CPY	Make backup copies of Microsoft Flight Simulator.
EZWRITR	UNP	Procedure to unprotect EZWriter 1.1.
EXECUVSN	UNP	Procedure to unprotect the Execuvision graphics package.
ENABLE	UNP	Procedure to unprotect the Enable v1.0 integrated package.
DUPE	EXE	Backup utility.
DSAVER	COM	DISK-SAVER v2.01 - copies disks.
DOUBLDOS	UNP	Instructions on how to unprotect the Doubledos Softguard.
DB3ZAP	DOC	Documentation for DB3ZAP.BAT.
ZORK3	UNP	Makes backup copies of Infocom's Zork III game.
ZORK12	UNP	Procedure to make backup copies of Infocom's Zork I, II.
WS2000	UNP	Procedure to unprotect WordStar 2000 v1.00.
WORD1_1	UNP	Procedure to unprotect MS- Word v1.1 using Ultra-Utilities.
LAYOUT	UNP	Procedure to unprotect LAYOUT program.
MANY	UNP	Procedure to unprotect dBase III v1.1 (bypass Softguard).
LOADCALC	UNP	Procedure to create a backup copy of LOADCALC v4.13.
LOAD-US	DOC	Documentation for use of LOAD-US.COM program.
LOAD-US	COM	Utility program to allow running Lotus 1-2-3 & Symphony.
NEW123UN	V1A	Procedure to unprotect Lotus 1-2-3 Release 1A.
NEW123	UNP	Procedure to unprotect Lotus 1-2-3 Release 1A.
123STAR	UNP	Procedure to unprotect Lotus 1-2-3 Release 1A.
MS2	UNP	How to unprotect MEMORY/SHIFT v2.1.
MOD123	DOC	Directions for use of MOD123.COM program.
MOD123	COM	Procedure to unprotect Lotus 1-2-3.
MLINK206	UNP	Procedure to unprotect Multilink v2.06 and allow direct.
MEMSHIFT	UNP	Procedure to unprotect Memory/Shift program.
WORD	UNP	Procedure to unprotect Microsoft Word.
VISICALC	UNP	Procedure to convert VISICALC to a .COM file.
UNPSYM	COM	Unprotect Symphony.

UNPROT	DOC	Documentation on how to use UNPROT.B.
UNPROT	B	BLOAD file from BASIC, designed to unprotect BASIC file.
UNP123	TXT	Procedure to unprotect Lotus 1-2-3 Release 1 & 1A.
ULTIMA	UNP	Procedure to unprotect Ultima II, Prokey 3.0 & others.
TRIVIA	UNP	Procedure to unprotect Trivia Fever (game & demo disks).
TM	UNP	Procedure to unprotect IBM Time Manager (80 col, v1.00).
TIMER	SK	Patch to fix Sidekick/DOS PRINT.COM conflict.
SYMPHONY	UP2	Same as SYMPHONY.UNP - simpler instructions.
SYMPHONY	UNP	Procedure to patch Symphony to allow it to run.
SYMPH	DOC	Documentation for SYMPHONY.COM program.
SYMPH	COM	Program to allow running Symphony from hard disk.
SK11C	UNP	Procedure to unprotect Sidekick v1.11C.
SK	UNP	Procedure to unprotect Sidekick v1.00A.
SIGNMAST	UNP	Procedure to unprotect Signmaster v5.04.
SDKIK	UNP	Procedure to unprotect Sidekick v1.10A.
PCDRAW14	UNP	Procedure to unprotect PC-Draw v1.4.
PCDRAW	UNP	Procedure to unprotect PC-Draw.
PFSFILE	UNP	Procedure to unprotect PFS-File & PFS-Report.
PFS-ZAP	UNP	Procedure to ZAP PFS-File & PFS-Report.
PFS	UNP	Procedure to unprotect PFS-File, PFS-Report, PFS-Write.
PCM	UNP	Procedure to unprotect IBM Personal Communications Mgr.
READWRIT	DOC	Documentation for READWRIT.COM.
READWRIT	COM	Program to reset read-only files to read/write and more.
READONLY	DOC	Documentation for READONLY.COM.
READONLY	COM	Program to make a file read-only.
RB4000	UNP	Procedure to unprotect RBASE 4000 v1.11.
PROKEY30	UNP	Procedure to unprotect PROKEY v3.0.
PROKEY	COM	Program referred to as part of procedure in PRODWN.TXT.
PRODWN	TXT	Patches to allow Prokey v3.0 to run with Sidekick.

User Comments: *"Finally an unprotect program that works. I can now run Lotus 1-2-3 from hard disk."*

■ Security Erase

SECURITY ERASE is a file-erasing program that lets you remove a disk file completely. The file is overwritten and cannot be recovered, even using an "unerase" utility such as Norton Utilities or Professional Master Key (PC-SIG disk #598), which can fix normal accidental deletes.

Unlike the DOS erase command, this program does not accept wild cards, which eliminates the possibility of accidentally deleting files with similar names or extensions. The program also lets you rethink your decision about removing a file before actually proceeding to erase it, because once it's gone...it's permanent!

You might like to use SECURITY ERASE if you are working with important files and need added security when you erase to ensure that confidential information stays that way!

(PC-SIG Disk# 1402)

Special Requirements: *None.*
Author Registration: *$12.00*

■ Viruschk

VIRUSCHK, a computer virus alarm, helps protect your system from viruses that can lie dormant and suddenly destroy all your files. Days, weeks, or months of effort can be lost. It detects any change to your files and reports this to you before the virus can do its damage.

VIRUSCHK reads each file and performs a summing and encryption algorithm on each byte in the file. A special data file is created containing this information and is used to recheck all files upon command for any changes.

(PC-SIG Disk# 1279)

Special Requirements: *Hard drive.*
Author Registration: *$39.00*

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Security Erase Erases and overwrites confidential files so they cannot be recovered, even using an "unerase" utility such as Norton Utilities or Professional Master Key. See *Security — File, Disk, or System.*
(PC-SIG Disk# 1402)

SeekEasy A flexible text search-and-retrieval system. Finds "best match" even when exact wording is not known. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 820)

Select-A-College Find the perfect college match for students based on tuition costs, majors, location, etc. Provides the 10 best matches and even helps write a letter to the admissions office. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1345)

Server A main computer on a network which provides services, such as data storage, for other computers on the network.

Service Plus Call and appointment tracking system for maintenance, service, and repair businesses. Customize screens to your particular business. See *Business Specific Systems.*
(PC-SIG Disk#'s 1270, 1271)

SET-SCRN Utility used to set screen border color and default screen colors so you don't have to watch what DOS has to offer. See "Baker's Dozen" listed under *File Management Utilities.*

SETE Make life easy on yourself by setting up your Epson printer without any hard-to-use commands or manuals. See "Printer Utilities 8" listed under *Printer Utilities.*

SetPrint Set or reset your printer with this utility. Commands can be imbedded within your file. See *Printer Managers.*
(PC-SIG Disk# 1312)

SFIND Find a specific file or all files with a specific file extension in a drive. SFIND will even find files in an archived file. See "Xanadu Utilities" listed under *File Management Utilities.*

Shareware Software distributed freely with the understanding that users will pay a registration fee directly to the author if, after trying the software, they are satisfied with the program. Also called "user- supported software."

Shell Programs See *DOS Shells.*

Shift Scheduling, Employee See *Personnel Management.*

ShortCut A memory-resident file manager with simple menus and on-line help. Perform DOS commands and access your applications. See *DOS Shells.*
(PC-SIG Disk# 840)

ShowLog Track all your videotapes in this database and print labels for the cassettes. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1274)

Shuffles Print your report or manuscript on both sides of the paper without having to figure it out for yourself! SHUFFLES does all the work. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1312)

Side Writer A sideways printing program for fat spreadsheets and wide text files. See *Printing, Sideways.*
(PC-SIG Disk# 523)

Sideways Printing See *Printing, Sideways.*

Silicon Sky Shows the night sky for the date and place you were born (or any other date and place), complete with cricket chirps! See *Astronomy and Space Exploration.*
(PC-SIG Disk# 1103)

SimBase Helps team managers analyze the strengths and weaknesses of individual baseball players and lineups over the course of a full season, compare two teams, and develop season statistics. See *Sports Management.*
(PC-SIG Disk#'s 1186, 1187)

Simple Bookkeeper An easy accounting program for small businesses that tracks 40 categories of expenses, sales receipts, and tax information. Annual profit/loss statements and expense summaries are part of the package. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 860)

Simply Labels Design labels any size or format for mailing, files, VCR tapes, or anything else that needs a label. See *Label Makers.*
(PC-SIG Disk# 1150)

SIMS SELECT I MENU SYSTEM (SIMS) is a memory-resident program to design, edit, and maintain menus for your computer system, providing user-friendly access to programs. See *Menu Programs.*
(PC-SIG Disk# 895)

Site License A software license which allows the use of a computer program by many different people at a single site.

Sleuth Whodunit? That's for you to find out in this "Clue"-type mystery game. Solve the mystery before you become the next victim! Ages 7-12. See *Games, Adventure and Text.*
(PC-SIG Disk# 694)

Slide Generation Use your PC to make slides or overhead transparencies for presentations. See *Presentation Graphics (Slides).*
(PC-SIG Disk# 244)

Slide Manager Database for cataloging your photographic slides or prints — with special features for artists who photograph their paintings for submissions to competitions. See *Photography.*
(PC-SIG Disk# 1390)

Slide.PC SLIDE.PC gives shutterbugs an efficient way to print caption information on labels to identify slides and photos, and at the same time store the information to disk for exporting to a database. See *Photography.*
(PC-SIG Disk# 1418)

Slides, Creating See *Presentation Graphics (Slides).*

Slides, Record Keeping See *Photography.*

Slug Haven't you always wanted to be a GIANT SPACE SLUG? Now's your chance! Commandeer your slug through the screen and eat spaceships; as your reward, you gain an inch in length. See "Game-Scape, Space Slug, Marooned & Ring" listed under *Games, Adventure and Text.*

Smart Money Let SMART MONEY pick lucky numbers for you to play in lotteries, horse races, Keno games, and other gambling situations that require betting on numbers. See *Lottery.*
(PC-SIG Disk# 1329)

SMSPOKER Play Las Vegas Poker on your PC. Play against the machine and run up your jackpot as you get better hands! See *Games, Cards.*
(PC-SIG Disk# 55)

Snap Filer SNAP FILER is a memory-resident database with many built-in spreadsheet functions. Perfect for jobs too small or short-term to warrant the time-consuming set-up of a complex database. See *Databases.*
(PC-SIG Disk# 1043)

SNOBOL A little-used programming language that specializes in the processing of "strings" of data. It was developed by Bell Labs in the early 1960s. See "Vanilla Snobol4" listed under *Programming, Tools.*

Snobolyt Utilities A collection of utility programs for the programmer — from a debugger to a source code generator and text formatter. See *Programming, Tools.*
(PC-SIG Disk#'s 928, 1128)

SOAR The name is Service-Oriented Accounts Receivable and it does what it says. Track your receivables and monitor the billings for your service company. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk#'s 812, 813, 1185)

Soft Fonts See *Printer Utilities, Laser.*

Softkey Editor A programmer's text editor with many special features: hexadecimal calculator, multiple files and windows, extended ASCII and more. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 880)

Solitaire Play the classic card game of Solitaire. An UNDO function and on-line help are extras provided, as well as several cheating options. See *Games, Cards.*
(PC-SIG Disk# 891)

Solitaire Card Games Attention, escapist compulsive-obsessives! Avoid this trio of solitaire games like the plague. Otherwise, you'll spend the rest of your life hunched over your PC enjoying these spiffy designer solitaire games. See *Games, Cards.*
(PC-SIG Disk# 1411)

Sopwith You have been chosen for this mission because you are the World War I flying ace. Use your Sopwith to take out buildings holding ammunitions, other Sopwiths, and anything that gets in your way. See "Games Galore" listed under *Games, Arcade.*

Sorted Directory A collection of utilities to help you to select, sort, format, and display your files. See *File Management Utilities.*
(PC-SIG Disk# 933)

Sorting, Text See *Databases.*

Sounds in BASIC BASIC code for "chirps," phasers, bombs, and other assorted noises you can add to your programs! See *Programming, BASIC.*
(PC-SIG Disk# 53)

Source Code The lines of programming language code that form a specific program. A compiler and/or an interpreter translates this source code into a machine language for direct execution by the computer. Some of the programs in the PC-SIG Library come complete with source code so programmers can make modifications to the program if desired. For programs see *Programming, (Specific Language).*

SP A memory resident utility that will take your information going to the printer, put it into a buffer, and then print that information from the buffer, allowing you to use your computer. See "Best Utilities" listed under *File Management Utilities.*

SPA:WN Structured Programming Automated: Warnier Diagram — a programming language with tutorial. See *Programming, Tools.*
(PC-SIG Disk# 442)

Space Rescue Launch from Earth, maneuver your ship to dock with a space station, transfer the crew, return and land, preferably safely, on Earth again. See *Games, Arcade.*
(PC-SIG Disk# 749)

Spacevad Kill the aliens before they land on your planet. You had better get 'em fast because the closer they get, the quicker they come. A Space Invaders clone. See "Patrick's Best Games" listed under *Games, Arcade*.

Spanish For Travelers Eight lessons teach pronunciation and usage. Several levels of skill are provided. See *Language Study, Foreign*.
(PC-SIG Disk# 1061)

Spanish Verb Conjugator On-line help function makes this program simple to use while you conjugate verbs in 14 tenses. Search routines help locate verbs. See *Language Study, Foreign*.
(PC-SIG Disk# 757)

Spanish, Educational See *Language Study, Foreign*.

Speech Make your computer talk — in a robotic tone of voice, of course, and have it say anything you want! Depending on your PC's speaker, the result can be awesome or garbled! See *Utilities, System or Hardware*.
(PC-SIG Disk# 1377)

Speech Synthesizer A combination of software and hardware which allows a computer to mimic human speech. Many visually handicapped people use the computer very effectively with the help of a speech synthesizer that can actually read the screen to them. For programs, see *Visually Impaired, Programs*.

Spell Games The World Olympics of spelling! Can you bring honor to your country? See *Spelling, Word, and Vocabulary Quizzes and Games*.
(PC-SIG Disk# 1144)

Spelling Checkers See *Word Processors, Text Editors, and Outliners*.

Spelling, Word, and Vocabulary Quizzes and Games

■ ARIONX: Seeker of Gans

Light on graphics but heavy on challenge, ARIONX: SEEKER OF GANS is the third in a six-part game series for math wizards.

If you love cryptographics, logic, math puzzles, and code-cracking, then you'll probably enjoy all six games in this series. Each game should be tackled and solved in consecutive order, as the preceding games' correct answers are required somewhere in the current game to arrive at the correct answer. However, it is possible to play each separately.

(PC-SIG Disk# 1090)

Special Requirements: *CGA*.
Author Registration: *None*.

■ Flash Cards: Vocabulary & Spelling

A menu-driven 7,500-Word Vocabulary Builder and Spelling Teacher for the high school and college-level student. The flash card format has proved to be an effective teaching mechanism for improving spelling and vocabulary skills.

The dictionary does not include the 4,000 most basic words but, rather, the 7,500 next most commonly-used words. BASIC source code is included. While you're polishing your spelling, learn the parts of speech and the definition of each word.

(PC-SIG Disk#'s 367, 368, 369, 370)

Special Requirements: *None*.
Author Registration: *None*.

■ Foreign Language Hangman

Norsoft FOREIGN LANGUAGE HANGMAN is an excellent educational program for learning Spanish, or for learning English by people who speak Spanish. While being educational, this program is very entertaining. It includes three variations on the basic Hangman game. The first is guessing what the secret word is, while in the second version you must guess an entire phrase. The last is Personalized Hangman, which can be played by two to nine players who enter a word or phrase to try to stump the others. This program is quite useful for building up your vocabulary or for learning basic grammar.

(PC-SIG Disk# 708)

Special Requirements: *None.*
Author Registration: *$10.00*

■ Gramarcy

GRAMARCY is a find-the-word-within-a-word game for children or adults. It has several thousand words, ranging in length from four to 11 letters.

You've seen this kind of game in the newspapers: locate all the words hidden in a given word. Each word given is randomly extracted from one of seven files in a word database. You compete against the clock to find all the words you can. Then you are scored for the number of correct words found versus the actual number of words hidden in the key word.

GRAMARCY is an excellent tool for anyone who wants to hone his or her skills at finding patterns in letters.

(PC-SIG Disk# 1158)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Hangman

HANGMAN is a game that enhances spelling and vocabulary. The program picks problems for you to solve from a diversified collection of data files, where the vocabulary of words and phrases is extensive keeping things from getting boring through repetition. You play against yourself, so at least you know the quality of the competition, although some players have been known to be surprised even then.

(PC-SIG Disk# 153)

Special Requirements: *None*
Author Registration: *$15.00*

User Comments: *"A very fun and interesting HANGMAN. Lots of options and good graphics. A very good, challenging game. Holds my children's interest. The music is great." "A good guessing game and spelling teacher." "These are excellent programs. Just the kind of fun and educational games we were looking for."*

■ NameGram

NAMEGRAM takes a name or phrase of up to 40 characters, and, using each letter only once, creates anagrams. The results, 1 to 16 letters each, are real English words. A curious but fascinating exercise.

(PC-SIG Disk# 477)

Special Requirements: *None.*
Author Registration: *$20.00*

User Comments: *"Interesting and fun disk. Everyone would use NAMEGRAM." "Fun. A delight." "A hodgepodge of nonsense, but it opens up one's imagination."*

■ Phrase Craze

A word game that's great fun for the whole family. If you've ever seen "Wheel of Fortune" on TV, then you already know how to play PHRASE CRAZE. (Sorry, Vanna is NOT included.)

This is a phrase-guessing game where you fill in letters as outlined on the screen in a series of words that make up a well-known phrase. Can I have an "R," please?

(PC-SIG Disk# 385)

Special Requirements: *None.*
Author Registration: *$35.00*
User Comments: *"Hours of fun and very easy to learn." "Fun but different. Fascinating take-off on WHEEL."*

■ Spell Games

SPELL GAMES is a spelling game set in the scenario of the World Olympics.

The program temporarily flashes a word in the corner of the screen, and you must type it correctly in order to win the round. If a mistake is made in typing, you immediately lose the round. SPELL GAMES has four levels of difficulty in its selection of words to spell, and you can select the amount of time the word flashes on the screen each time.

You have eight countries to choose from to represent your team and your opponent. SPELL GAMES has interesting color graphics and even plays different types of music, depending on the country you choose to represent your team.

(PC-SIG Disk# 1144)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ VMS Vocabulary Management System

Create customized learning games for your children or students to help them improve their vocabularies, sharpen their spelling and learn new subjects. A variety of educational games can be created suitable to any age level from six-year-olds to adult and covering almost any topic.

The EDITOR allows you to compile facts and word lists you want used in the five different games.

WORD SEARCH makes printed word search puzzles and anagram puzzles. TEST PRINTER makes printed match-the-word-to-its-definition puzzles. A sample included is STATES, which challenges students to match the states of the United States with their associated capitals, mottos, state flowers, and state birds. Similarly the program could be used to learn other subjects, such as: Presidents/important acts; foreign vocabulary words/English words; metric units of measure/English units; dates in history/important events; famous writings/their authors, etc.

The other three customizable games are played on the computer. QUIZZER tests players on words and their definitions. FORTUNE provides a "Wheel of Fortune" game format where players compete to identify a word by guessing the letters of its definition. SPELLER quizzes students on the spelling of words and includes the games FLASH and ANAGRAMS.

(PC-SIG Disk# 1379)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Wheel of Misfortune

We've all said "I can do that" when it comes to guessing the letters on that game show. Here's your chance to prove it, but there are a couple of twists added to the situation.

WHEEL OF MISFORTUNE is a one-to-six-player game in which players compete to guess a puzzle consisting of a word or phrase. The wheel has 24 slots, each with a money value or a special slot. Landing on a special slot can cause bankruptcy, give you a free spin, or make you lose a turn. Landing on the other slots earns you money if you guess a consonant of the puzzle correctly. But, if you guess a letter, and it's not in the puzzle, that amount you landed on is subtracted from your winnings, thus giving you an incentive to be correct every time!

The player who wins the first three rounds of the game goes on to the bonus round with a chance for the BIG money. There are more than 1,200 phrases packed into this program which features pop-up instructions, mute switch, and a moving Vanna.

(PC-SIG Disk# 891)

Special Requirements: *None.*
Author Registration: *$15.00*
User Comments: *"Excellent! Wheel is great fun." "Wheel of Misfortune is great for anyone who loves game shows. Solitaire with the cheating capability works great." "Fun, relaxing."*

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Spooler A spooler can refer to any software or hardware that intercepts and redirects computer information, but the term usually refers to a print spooler software for directing printer output somewhere other than the printer. Most print spoolers set aside memory to quickly intercept printer output, so you can return to your application while the memory continues to send output to the printer in the background. For programs, see *Printer Managers*.

Sports Management

■ Bowl - 101

At long last, some help for all of you overworked bowling league secretaries. Let BOWL-101 handle the drudgery of maintaining the records.

Completely menu-driven, this was written with the novice PC user in mind. BOWL-101 pairs teams for you. Tell the program which team bowled on which lane, enter the three games for each bowler in the order they bowled, and it does the rest.

BOWL-101 handles high team and individual games and series. Scratch and handicapped, mixed or not, are done automatically. You'll soon be a hero. Keeping individual averages for several weeks is no problem. Errors are easy to correct: any team, bowler, sub, high game, name, or score may be changed with just a few keystrokes.

(PC-SIG Disk# 1246)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Bowling League Secretary

So you've been fingered to run the company bowling league, eh? No problem. This software, aptly called BOWLING LEAGUE SECRETARY, will make your job a snap. The package includes 12 programs that cover everything needed to run a league.

This highly generalized system handles league name, team, configuration, handicap basis, and schedule. As distributed, the system can handle 24 teams, up to nine bowlers per team, and up to a 50-week season.

Programs are provided to start all master files, enter scores and print standings (weekly), as well as prepare book average listings, final team/bowler standings, and display or print individual team/bowler record sheets.

(PC-SIG Disk# 23)

Special Requirements: *A version of BASIC.*
Author Registration: *$15.00*

■ Bowling League Secretary's System

Take the tedium out of a time-consuming task.

BOWLING LEAGUE SECRETARY'S SYSTEM takes information like league name, bowling place, league type, team configuration, handicap basis, and schedule, compiles the data and starts all master files, prepares weekly standings, book average listings, final team/bowler standings and individual team/bowler record sheets.

The system can handle 32 teams, up to eight bowlers per team (290 total), and up to a 50-week season. BOWLING LEAGUE SECRETARY'S SYSTEM is menu-driven and has on-line help.

(PC-SIG Disk# 884)

Special Requirements: *None.*
Author Registration: *$25.00*

User Comments: *"Very flexible and easy to use. Makes my job as league secretary much easier and less time consuming." "BOWLING LEAGUE SECRETARY'S SYSTEM is outstanding."*

■ Diver's Log

DIVER'S LOG is for the active scuba diver or scuba club to record information about each dive for future retrieval and analysis.

The database has fields for: the dive number, location, date, weather conditions, surface conditions, current condition, air and water temperature, visibility, air consumption, bottom time, and average or maximum depth. Records may be searched, edited, deleted, viewed, and printed.

(PC-SIG Disk# 1315)
Special Requirements: *CGA.*
Author Registration: *$15.00*

■ Double Bogie Killer

DOUBLE BOGIE KILLER is a golf stats/database used to track on-course performance.

For each hole played, three data items are recorded: gross, putts, and fairways. Course data such as yardages, hole pars, and course ratings are taken from the scorecard and recorded into the course database. Your stats for each round are entered into your player file.

The following reports can be run at any time after the first hole has been entered: overall summary, course-by-course review, USGA handicap and nine-hole handicap report, scoring percentages, and efficiency analysis. Send reports to a disk or printer.
(PC-SIG Disk# 984)
Special Requirements: *Two floppy drives.*
Author Registration: *$20.00*

User Comments: *"Fantastic! If this kind of program is the trend in shareware, then I'm hooked." "Good program for golf enthusiasts."*

■ FishBase II

FISHBASE lets devoted fishermen, amateur and professional, keep track of their favorite fishing holes — to catch more, bigger fish in the future. It's a database diary in which you record all the important facts about the fish you catch, so you can return to the scene of your success. It holds up to 800 fishing trips. In addition to location, you can record weather conditions, water temperature, size of fish caught, and which lures you used to catch them. You can even note items such as the phase of the moon, in order to find out when the bass are likely to spawn. You can also print many reports from your data.

Currently in use by several "pros," this program will also be of interest to fishing clubs for competitions. The many help windows move the program along swimmingly, and they are backed up by a hefty user guide guaranteed to hook you.
(PC-SIG Disk# 1358)
Special Requirements: *None.*
Author Registration: *$10.00*

■ Foursome Generator

FOURSOME GENERATOR is a program which automatically calculates foursomes (teams of four) for golf tournaments, based upon their handicaps. This program allows you to keep a running roster of members eligible to play. Up to 500 people can be entered on each list. Separate lists may be saved to disk. You can edit and update the names and handicap numbers at any time, and the program lets you define the range for the handicap numbers.

Once the names are entered, the program can sort the list alphabetically. From a list of names you can mark the names of those who are going to play in a foursomes tournament. The program then quickly generates foursomes so all teams will have an equal or almost equal handicap total. This program allows you to produce a printout of the entire player listing or a printout of the calculated foursomes.
(PC-SIG Disk# 1174)
Special Requirements: *None.*
Author Registration: *$39.00*

■ Graphics Coach for Runners

GRAPHICS COACH gives serious runners of all levels an easy way to monitor their training, progress, and plans for improving fitness and race performance. Personal advice is given that establishes a training schedule based upon the runner's time for a 5K or a 10K run.

Monthly and yearly graphs and tables display the runner's pace, average speed, and total distance run. A practical, useful program for any runner who wants to improve and pace his/her running ability.

(PC-SIG Disk# 849)
Special Requirements: *CGA.*
Author Registration: *$24.95*

■ High Point

HIGH POINT belongs at your next meet or sporting event. Designed to assist in judging competitive events, it calculates and provides judges (and journalists) with tallies and standings, instantly.

The program handles events of one to 10 rounds, with up to 400 participants grouped by one to 10 classes. The data entry screen is self-explanatory and the documentation contains many useful hints and precautions for the actual events.

Save data to a file or print results of a round or current standings at any time. There is even a supplementary program to help resolve ties when the judges are required to include secondary criteria.

(PC-SIG Disk# 1315)
Special Requirements: *CGA.*
Author Registration: *$20.00*

■ Jog Log

JOG LOG records your progress as a runner and calculates the aerobic benefit from each run. Record up to 3000 runs before the floppy disk becomes full.

There are two basic methods for measuring aerobic benefit for a particular run: the aerobic log and the target heartbeat method. The first calculates your progress based on the time and distance of each run, and the second gives you a target heart rate that you must reach and maintain for a certain amount of time.

JOG LOG uses either method. You can search the records of your runs based on the month, the physical effort, or the distance of the run, or you can compare your most recent run with the ones just before it.

(PC-SIG Disk# 894)
Special Requirements: *None.*
Author Registration: *$10.00*

■ PC-Golf

PC-GOLF is a score analysis program for all levels of golfers and golf instructors. Don't throw your clubs in the water hazard! Analyze your failings and fix your game.

Enter your game scores and course ratings for the courses you play to find the problem areas in your game. Keep track of how you do by course and by hole. Record practice games and handicaps. Compute gross and adjusted scores and average strokes for each player for each hole. Nine tables and graphs illustrate areas needing improvement.

Improved player performance is the focus, so let your PC do the analysis while you concentrate on your game. And keep your head down!

(PC-SIG Disk# 262)
Special Requirements: *A version of BASIC.*
Author Registration: *$35.00*

■ SimBase

SIMBASE is a baseball simulation program. It contains data for two teams. This program gives you a tool to analyze the value of a particular player or a group of players to the team over the course of one or more full seasons. It lets you review the pluses and minuses of different player lineups. And it provides a framework where you can forecast the likely outcome for a full baseball season. To really use SIMBASE productively, you must run a large number of games and look at the averages. Once you are familiar with the program, you will want to amend the LINEUPS.DAT file by shuffling or adding and subtracting players. This is easily done with any wordprocessor that reads and writes ASCII files.

(PC-SIG Disk#'s 1186, 1187)
Special Requirements: *None.*
Author Registration: *$25.00*

■ Sports Statbook, The

If you're in charge of tracking stats for hockey, soccer, volleyball, or other team sports, STATBOOK will significantly reduce the time and effort you spend. Appropriate for pro, semipro, high school, college, and company-sponsored teams, it automatically tracks and provides year-to-date and/or historical player statistics. This software is currently used by such teams as Hockey Central of Philadelphia and the L.A. Kings. The documentation is extensive and helpful.

(PC-SIG Disk#'s 1426, 1427)

Special Requirements: *None.*
Author Registration: *$40.00*

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Sports Statbook, The In charge of tracking stats for hockey, soccer, volleyball, or other team sports? STATBOOK reduces the time and effort you spend. Appropriate for pro, semipro, high school, college, and company teams. See *Sports Management.*
(PC-SIG Disk#'s 1426, 1427)

Sports, Contest Record Keeping See *Sports Management.*

Sports, Statistics See *Sports Management.*

SportsBook A menu-driven bookie emulator. All necessary recordkeeping is provided. See *Gambling.*
(PC-SIG Disk# 1132)

Spreadsheet An electronic worksheet that uses the versatile metaphor of an accounting ledger, rows and columns, as a forum for all types of business management tasks. The most outstanding feature of a spreadsheet is that a user can set aside a cell (where a row and a column overlap) to be the calculated result of data that appears in other cells elsewhere on the spreadsheet. Then, as the other data changes, the calculated result is automatically updated. A spreadsheet allows a user to instantly see the effect of changing variables on other calculations. For programs, see *Spreadsheets.*

Spreadsheet Templates

■ FITT Lotus 1-2-3 Tax Worksheets

A Lotus 1-2-3 worksheet to help you simplify the preparation of your federal income tax return. You don't have to be a Lotus 1-2-3 expert to take advantage of FITT.

Three new forms have been included with the most recent version:

- Form 2210 - Underpayment of Estimated Tax by Individuals and Fiduciaries
- Form 1116 - Computation of Foreign Tax Credit
- Form 8615 - Computation of Tax for Children Under Age 14 Who Have Investment Income of More Than $1,000

Forms 1040 and 2441, Schedules A, B, C, D, E, G, and W can also be produced. In addition to the official IRS forms and schedules, FITT includes a number of the worksheets that appear within the Form 1040 instruction package, such as:

- Taxable Refunds of State and Local Income Taxes, Social Security Benefits
- IRA Worksheets 1 and 2, Self-Employed Health Insurance Deduction
- Schedule SE Worksheet

Fill in the blanks on the screen forms and FITT automatically performs all the calculations, comparisons, table look-ups, and other required checks and cross-references.

(PC-SIG Disk# 290)

Special Requirements: *Lotus 1-2-3.*
Author Registration: *$35.00*

■ Lotus Financial Worksheets

Lotus 1-2-3 financial worksheets for a small business — powerful enough for the veteran 1-2-3 user, yet friendly to beginners. Accounting templates include a check book controller, cash flow managers, an EOQ inventory mananger, depreciation and loan calculators. The macro library is sophisticated and requires reading of the included documentation.

(PC-SIG Disk# 304)

Special Requirements: *Lotus 1-2-3.*

Author Registration: *None.*

File Descriptions:

ADC	WKS	ACRS Depreciation Calc.
ARC	WKS	Accounts receivable collections tracker.
CBB	WKS	Check book balancer.
CFM	WKS	Cash flow manager.
CDB	WKS	Cash disbursements.
EIO	WKS	EOQ inventory ordering.
CFP	WKS	Cash flow projection.
FFS	WKS	5-in-1 financial statement.
GCC	WKS	Growth capacity calculator.
IIB	WKS	Interactive income statement.
IRR	WKS	Internal rate-of-return.
LCT	WKS	Line-of-Credit tracker.
LNP	WKS	Loan payoff calculator.
LNA	WKS	Loan amortization.
MACRO_1	DOC	Documentation for MACLIB.WKS (5K).
MACLIB	WKS	Lotus 1-2-3 Macros Library-combined into most worksheets.
OLDBULL	DOC	Doc file of all bulletins from the Capitol PC BBS.
NVB	WKS	New venture budget.
QA1	WKS	Queue analysis (single-station service facility).
PVA	WKS	Price volume analysis.
STC	WKS	Statistics calculator.
RAR	WKS	Ratio analyzer.
QGN	WKS	Quote generator - form and tracker.
QAM	WKS	Queue analysis (multi-station service facility).

■ Lotus Worksheets and Macros

A broad-ranging collection of Lotus 1-2-3 technical notes, utility programs, operation hints, and templates for both the power user and the novice.

Features:

- Create address labels
- A for-next loop
- Make menu macros
- Learn to document formulas
- Import files
- Build a table for range names
- Learn about /XI macros
- Understand the /datafill function
- Construct a macro library
- Tech notes on many Lotus capabilities

(PC-SIG Disk# 301)

Special Requirements: *Lotus 1-2-3.*

Author Registration: *$15.00*

■ Whiterock Alternative

The WHITEROCK ALTERNATIVE is a macro-driven worksheet shell (AUTO123.WKS) for Lotus 1-2-3 worksheets, with four very useful applications: a checkbook manager, mailing list, loan amortizer, and job costing/time management worksheet.

AUTO123.WKS is a worksheet manager that allows access to other 1-2-3 worksheets. Supported by clever screen graphics, the WHITEROCK ALTERNATIVE applications are a pleasure to use. A library of 1-2-3 macros is also included.

(PC-SIG Disk# 583)

Special Requirements: *Two floppy drives and Lotus 1-2-3, release 2.0.*
Author Registration: *$15.00*

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Spreadsheet Utilities and Education

■ Goal Seeker

GOALSEEKER is used with your spreadsheet (Lotus 1-2-3, etc.) to automatically find solutions with a reverse or backward search method, also known as "goal-seeking." Goal-seeking is the ability to achieve certain targeted values in a spreadsheet by varying the associated data. If you want to get a certain answer at the end of a computation, this program will help you "fudge" the right data to get there.

Although not required, GOALSEEKER will use an 8087 or 80287 math coprocessor chip if installed. GOALSEEKER supports SuperCalc4, Multiplan, and VP Planner, as well as Lotus 1-2-3.

(PC-SIG Disk# 726)

Special Requirements: *Lotus 1-2-3, SuperCalc 4, Multiplan, or VP Planner.*
Author Registration: *$29.95*

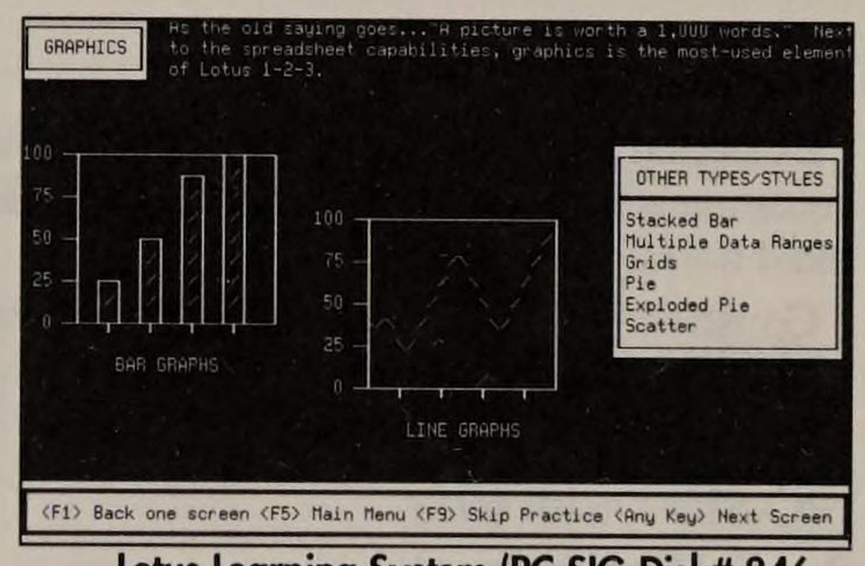
■ Lotus Learning System

THE LOTUS LEARNING SYSTEM is designed to teach the novice computer user how to use Lotus 1-2-3. The program starts by showing how to use the tutorial and its menu structure.

Choose the option you would like to start with. From this menu you may choose spreadsheet background, applications for Lotus 1-2-3, keyboard features, menu structure, commands, access system, control panel features, and more. A must for anyone about to buy, or who already has, Lotus 1-2-3.

(PC-SIG Disk#'s 846, 847)

Special Requirements: *512K RAM and two floppy drives.*
Author Registration: *$79.95*



Lotus Learning System (PC-SIG Disk# 846, 847)

User Comments: *"I've been looking for an easy tutorial like this. Very helpful to people who are intimidated by computers." "This is one of the best demos of its kind. The author designed a very good technique to make users understand about Lotus."*

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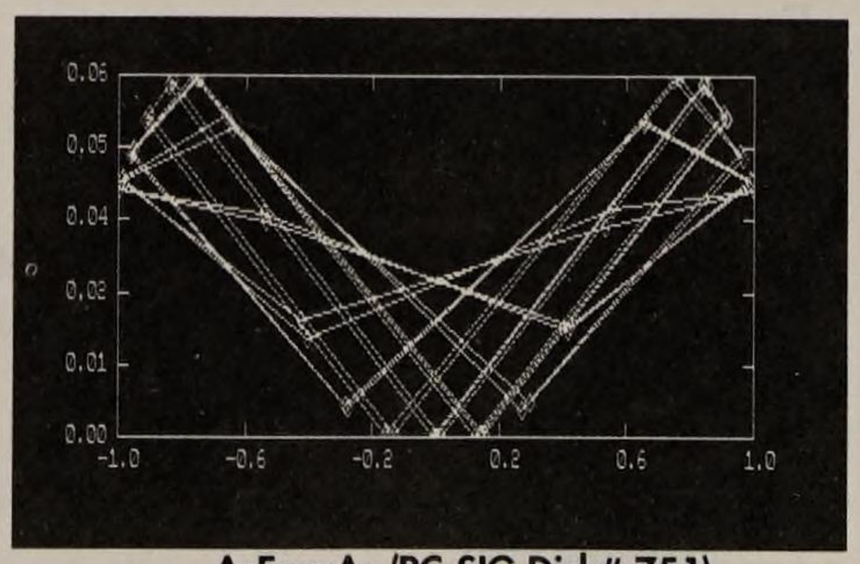
Spreadsheets

■ AsEasyAs

ASEASYAS is an enhanced and refined spreadsheet program that supports 256 columns and 2048 rows. It has a high degree of command compatibility with Lotus 1-2-3, and a broad range of formulas and functions.

Unlike many other spreadsheet programs, however, ASEASYAS can plot graphs, bar charts, and X-Y coordinate charts. ASEASYAS is easy to use because you enter commands through on-screen menus, unlike Lotus. There are additional features that let you extract or combine portions of spreadsheets through special commands.



AsEasyAs (PC-SIG Disk# 751)

Additionally, ASEASYAS lets you directly use Lotus files. Other features include search and replace, macro record and playback, macro trace and delay, screen blanking, and goal-seeking. There is also a linked calculation sequence that saves considerable time when recalculating.

(PC-SIG Disk# 751)

Special Requirements: *None.*
Author Registration: *$40.00*

User Comments: *"Very good. Able to plot graphs from within the program, a good feature." "Lotus-like spreadsheet is slower than Lotus, but easier to learn and use."*

■ ExpressCalc

EXPRESSCALC is a spreadsheet with a wide variety of applications ranging from business forecasts to mortgage calculations.

It does not require a programming background to be able to use it, and will interface with other files and databases — allowing an exchange of information. Included is a tutorial, good documentation, and the option to configure the package to specific systems. EXPRESSCALC supports spreadsheets up to 64 columns by 256 lines. Each column can be up to 75 characters long.

(PC-SIG Disk#'s 524, 525)

Special Requirements: *512K RAM.*
Author Registration: *$59.95*

User Comments: *"Used it to make gradebooks for my university classes." "Flat easy to learn. You can't go wrong." "A very satisfactory spreadsheet." "Used it for teaching."*

■ EZ-SPREADSHEET

Designed to be an easy-to-use spreadsheet for the first-time user, EZ- SPREADSHEET has straightforward commands which are logical and understandable. It also has 512 column by 64 rows structure — big enough for most users.

Construct your own spreadsheet or use one of the templates included. The applications provided range from budget worksheets and loan calculators to savings plans and financial statements.

A good tool for home and business.

(PC-SIG Disk# 695)

Special Requirements: *None.*
Author Registration: *$49.00*

User Comments: *"Excellent for home use. Does all the things I need for financial work." "Colorful displays and help menus are good. Lack of print-to-file feature sometimes poses a problem."*

■ Freecalc

FREECALC is a spreadsheet program with numerous features. It has been expanded from version 1.0 and is a mature product. While it lacks some of the features and power of a product like Lotus 1-2-3, it also lacks Lotus's high price. As a better than average spreadsheet, it is quite adequate for most applications. Like Lotus, FREECALC uses all available memory (up to 640k) and is command bar-driven. FREECALC also allows for a color monitor. The disk manual is very complete and is 106 pages long.

Features:

- 250 rows by 25 columns
- Column width of 0 to 70 characters
- Text can be entered
- Left or right justified
- Display 0 to 6 decimal places
- Macros
- Print spreadsheet by disk
- Export spreadsheet to other programs
- Load ASCII text files
- Support for 8087 and 80287 coprocessors

- Up to 15 significant digits
- Wordprocessing mode
- Move, copy, delete and insert columns/rows

(PC-SIG Disk# 574)

Special Requirements: *Two floppy drives.*
Author Registration: *$35.00*

User Comments: *"Good spreadsheet. Useful for many home purposes."*

■ Instacalc

INSTACALC is a full-featured spreadsheet program with an interesting twist: it's memory-resident. This means that on the first run, nothing seems to happen. INSTACALC has simply been loaded into memory and is now waiting for you to call it up by pressing "Alt I." INSTACALC waits patiently while you type a letter with your wordprocessor, update your database, or whatever. Then when you press "Alt I," it's on the screen and ready to serve you. This has some useful applications, such as incorporating part of a spreadsheet table into a wordprocessing file, or cutting and pasting with other programs. You can import and export from Lotus 1-2-3, dBASE, and .DIF files.

(PC-SIG Disk# 710)

Special Requirements: *Two floppy drives.*
Author Registration: *$49.95*
➤ ***ASP member.***

User Comments: *"Don't own a computer without INSTACALC."*

■ PC-Calc+

If value means good product for the "right" price, then PC-CALC+ is outstanding value raised to the nth power. You will find a multitude of capabilities in this power package that makes for an unbeatable spreadsheet combination.

Math functions like absolute value, integer, modulo, natural log, round, sine, square root, true integer, 14 different trigonometric functions, and more are included. 8087/80287/80387 math coprocessors are automatically utilized if detected. You will find all the basic and not-so-basic statistical functions included, such as average, weighted average, count, maximum, minimum, standard deviation, sum, linear regression, binomial distribution, normal distribution, and Poisson distribution.

Data can be imported and exported from files from PC-File:dB, PC-File+, PC-Type/ASCII files, DIF, Lotus 1-2-3, and comma-delimited files. You can also block import from other PC-Calc+ spreadsheets. Printing options include printing entire spreadsheet or selected range, print to disk or printer, print sideways, use escape codes, pause between pages, and using single-, double- or triple-spacing. You can save 25 macros per file to eliminate repetitive keystrokes. PC-CALC+ spreadsheets can handle 256 columns and 8000 rows with 255 characters per cell. After you're done with your number crunching, create bar and pie charts, or line and scatter diagrams. Also, multiple variables can be graphed and accumulated.

PC-CALC+ combines number-crunching power, graphing, and flexible report options for an ideal spreadsheet. PC-CALC+'s pop-up menus and context- sensitive help screens make it a pleasure to use.

(PC-SIG Disk#'s 199, 1016, 1017)

Special Requirements: *280K RAM and two floppy drives.*
Author Registration: *$69.95*
➤ ***ASP member.***

■ Power Sheets

PC Magazine calls POWER SHEETS "the most powerful, pure spreadsheet on the market" and labels it "easy to use." Corporations such as Ford, AMOCO, and First Chicago are using it to develop sophisticated turnkey applications beyond the capabilities of other spreadsheets.

POWER SHEETS offers three-dimensional data presentations with the ability to rotate the data cube to view slices in other orientations. A special language gives POWER SHEETS programmability. Pop-up menus guide users through all functions.

Other spreadsheets operate on ranges; POWER SHEETS goes further, using lists involving a combination of ranges, cell references, or formulae. Another feature allows it to base the bounds of a range on the values of other

cells, and provides for true date and time math. All functions are fully recursive and can be nested to any depth. The upshot is the availability of 16 million cells.

POWER SHEETS reads and writes .DIF files by row or column. It reads and writes ASCII files either non-delimited or delimited, with any choice of delimiters. Its rich function library includes trig and log functions, statistical and Boolean functions, yes-no-maybe logic, and sophisticated case function.

(PC-SIG Disk#'s 1284, 1285)

Special Requirements: *None.*
Author Registration: *$19.95*

■ QubeCalc

QUBECALC is a spreadsheet with many advanced features. However, the special power of this package is in its being a TRUE three-dimensional spreadsheet, as opposed to some two-dimensional spreadsheets which let you link cells of multiple spreadsheets together.

QUBECALC can be thought of as a large cube — the workqube — with 262,144 cells arranged into 64 rows, 64 columns, and 64 pages, named X, Y, and Z. It is configured so there are six faces on the workqube, named A through F. Here is the power of this spreadsheet: you can view, enter, or manipulate your data from ANY of the six faces — providing a different perspective of the data stored within the workqube.

(PC-SIG Disk# 696)

Special Requirements: *Two floppy drives.*
Author Registration: *$69.00*
➤***ASP member.***

User Comments: *"Better data manipulation than I expected." "Takes some study to get used to, but it's worth it to tap the potential for data analysis." "My wife uses it all the time."*

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SPRINGER Better than the average chess player, with lots of options, such as instant replay and game print-outs. See *Games, Board and Dice.*
(PC-SIG Disk# 1434)

SS1 This integrated program of wordprocessor, spreadsheet, list manager, communications, and file browser can meet 70% of your computing needs! Pop-up aids are a keystroke away anywhere in the system. See *Integrated (Wordprocessing, Database, and Spreadsheet).*
(PC-SIG Disk#'s 1414, 1415)

ST A super type command that allows 2-way scrolling of your text files using your cursor keys. See "Best Utilities" listed under *File Management Utilities.*

Standard Deviation See *Statistical Programs.*

Star Catalogue Data files on 1,700 stars of magnitude six or greater. General astronomy notes and essential facts and figures about our solar system. See *Astronomy and Space Exploration.*
(PC-SIG Disk#'s 851, 852)

Star Trek Trivia See *Trivia.*

StarBooks An integrated inventory, purchasing and accounts receivable package for businesses. Print invoices and access customer's accounts easily. See *Accounting, G/L, A/P, A/R, Payroll.*
(PC-SIG Disk# 1250)

Stat Statistical data manipulation and analysis programs for the college-level mathematician/statistician. See *Statistical Programs.*
(PC-SIG Disk#'s 990, 991, 992)

Statements, Billing See *Accounting, Billing.*

Statistical Consultant An expert system to help you select the right statistical test for your problem. See *Statistical Programs.*
(PC-SIG Disk# 949)

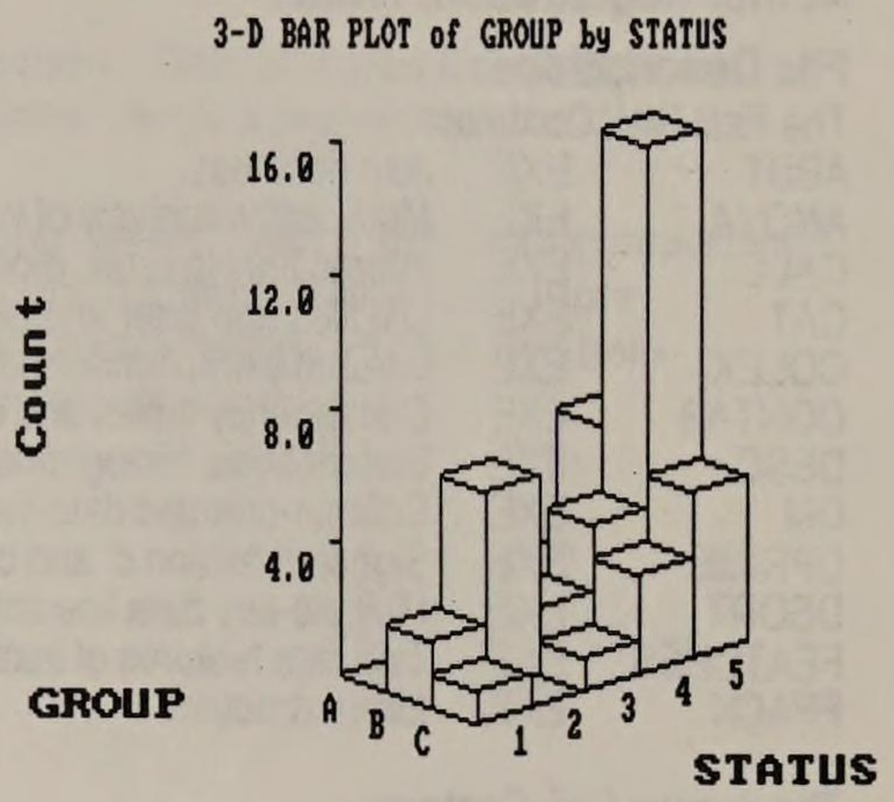
Statistical Programs

Statistical Programs See *Math and Geometry Programs.*

■ Kwikstat

KWIKSTAT is a scientific statistical analysis system complete with graphics. Import ASCII files, dBase III files or build your own databases. KWIKSTAT is menu-driven, with six separate modules.

- DATA — Create a database, enter, and edit data.
- REPORTS — Export data to another program; display the structure of a selected database and access DOS without exiting.
- STAT1 — Descriptive statistics and graphical representations such as histograms, scatterplots, and box plots.
- STAT2 — Explore comparative statistics with t-tests on paired or matched data and one-way analysis of variance (ANOVA).
- STAT3 — Perform simple linear and multiple regression analyses.
- STAT4 — Deal with various methods to analyze categorical data as opposed to measured data.



(PC-SIG Disk#'s 654, 655)
Special Requirements: *Two floppy drives and CGA, EGA, or VGA.*
Author Registration: *$35.00*
➤ ***ASP member.***
User Comments: *"Kwikstat is a better statistical program than many expensive commercial ones."*

■ Probability and Statistics

This is a collection of mathematical and statistical programs useful in many applications.

The following programs are included: PROB.BAS computes probabilities for binomial, negative binomial, hypergeometric, and poisson distributions. It computes probabilities and percentage points for standard normal, student's T, Chi-Square, and F distributions. It computes probabilities to four decimal places and percentage points to four significant figures. Menu-driven.

SIMCORR produces pseudo-random samples from a bivariate normal population. The main use of this program is to illustrate the meaning of the correlation coefficient.

LILFOR does two things: it prints a graph used to hand-plot a sample CDF to perform the Lilliefors test for normality, and it also reads data from disk or keyboard and performs the Lilliefors test, printing both graphic and numeric output.

CFIT fits up to 196 different curves to paired data using least squares regression. Report results are sorted by F value or by adjusted coefficient of determination. Plot the observed data together with any of the fitted curves. Report a variety of diagnostic information, including histograms of residuals, anova tables, and various standard errors.

(PC-SIG Disk# 985)
Special Requirements: *CGA.*
Author Registration: *$5.00*

■ Stat

STAT is a set of data-manipulation and analysis programs developed at the University of California, San Diego, and at the Wang Institute of Graduate Studies. They were designed under the UNIX philosophy that says individual programs should be designed as tools to do one task well and produce output suitable for input to other programs.

There are two sets of STAT programs: data manipulation and data analysis. The data manipulation programs are general utilities that cooperate with other programs. The data analysis programs compute the most widely-used descriptive and inferential statistics. Although these are independent programs, the output from one program can be used as input to another. A solid knowledge of statistics and computers is assumed.

(PC-SIG Disk#'s 990, 991, 992)

Special Requirements: *None.*

Author Registration: *None.*

File Descriptions:

The First Disk Contains:

ABUT	EXE	Join data files.
ANOVA	EXE	Multi-factor analysis of variance.
CALC	EXE	Interactive algebraic modeling calculator.
CAT	EXE	List files one after another.
COLEX	EXE	Column extraction/formatting.
CONTAB	EXE	Contingency tables and chi-square.
DESC	EXE	Descriptions, histograms, frequency tables.
DM	EXE	Column-oriented data manipulator.
DPRIME	EXE	Signal detection d' and beta calculation.
DSORT	EXE	Multiple-key data line sorting filter.
FEATURES	EXE	Tabulate features of items.
FPACK	EXE	Line extraction.

The Second Disk Contains:

FF	EXE	Fast text formatter.
LINEX	EXE	Line extraction.
MAKETRIX	EXE	Create matrix-type file from free-form file.
ONEWAY	EXE	One-way anova, t-test and error-bar plots.
PAIR	EXE	Paired data statistics, regression, plots.
PERM	EXE	Permute line order.
PROBDIST	EXE	Probability distribution functions.
RANKIND	EXE	Rank order analysis for independent conditions.
RANKREL	EXE	Rank order analysis for related conditions.
RANKSORT	EXE	Rank order columns.
REPEAT	EXE	Repeat a pattern or file.
REVERSE	EXE	Reverse lines, columns and characters.

The Third Disk Contains:

REGRESS	EXE	Multiple linear regression.
SERIES	EXE	Print a series of numbers.
STATS	EXE	Report summary statistics.
TRANSPOS	EXE	Transpose matrix-type file.
TS	EXE	Time series analysis and plots.
VALIDATA	EXE	Verify data file consistency.
MANUAL	*	Text files for the manual.
EXAMPLE	*	Data files.
PROGRAM	*	Main Program.

■ *Statistical Consultant*

The STATISTICAL CONSULTANT is an expert system to help you select the right statistical test for your problem.

The system asks you a series of questions about the variables and goals of the measurement. Based on your responses, the system chooses a statistical test or measure. Should your problem require a deeper analysis than can be addressed within CONSULTANT, the system indicates references for further study.

The program assumes a level of technical knowledge greater than that offered in a first course in statistics.

(PC-SIG Disk# 949)

Special Requirements: *None.*

Author Registration: *$8.00*

■ Statmate/Plus

A statistical analysis package for handling numerical data, operated by entering one-line commands and subcommands. Command "batch" files can be created for automatic execution, along with explanatory screen remarks.

STATMATE operates on information contained in a database, generated by the program. A user ID is required before entering a database, and for every new user ID, an empty database is created. This feature permits multiple users to work with STATMATE while keeping the data files separated.

Extract data from an ASCII text file and load it into the database for operation. Data is stored in columns and rows, and you can extract portions of the data according to your specifications. As you manipulate the data, the results can be displayed on the screen, printed, or saved on a disk file.

The main analytic features are elementary statistics, scatter plots, cross-tabulations, histograms, data comparison using the T-Test, correlation, arithmetic operations, distribution functions, curvilinear regression, multiple regression, nonlinear regression, data recoding, and data transformation and manipulation. An on-line help facility is included to give you a detailed description of all the STATMATE commands.
(PC-SIG Disk#'s 861, 862, 863)

Special Requirements: *Two floppy drives.*
Author Registration: *$35.00*

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Statistics, Sports See *Sports Management.*

Statmate/Plus A statistical package that provides scatter plots, T-test data comparsion, distribution functions, multiple regressions, and other tools for analysis. See *Statistical Programs.*
(PC-SIG Disk#'s 861, 862, 863)

Still River Shell A file and directory management program and DOS interface to simplify your life. Cut down on time and keystrokes and get on with your computing. Top-rated! See *DOS Shells.*
(PC-SIG Disk# 481)

Stock STOCK tracks stock portfolio files with up to 200 entries each. You fill out basic information, and the program generates loss/gain figures, plus annual and total percentage value changes. See *Investment Management.*
(PC-SIG Disk# 1159)

Stock Charting System Creates "volume/high/low/close" charts for any stock, bond, commodity, or security. See *Investment Management.*
(PC-SIG Disk#'s 246, 1354)

Stock Inventory Control Maintain inventory of stocked items and identify order levels. Provides year-to-date sales for each item. See *Accounting, Inventory Control.*
(PC-SIG Disk# 958)

Stocking, Inventory See *Accounting, Inventory Control.*

Stocks, Bonds, and Investments See *Investment Management.*

Storm Beautiful graphics display maps and storm data for tracking and studying hurricanes in the Atlantic, the Caribbean, or the Gulf. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1372)

String A sequence of characters, words, or phrases which is treated as a single character by a program or utility. Any set of consecutive, adjacent characters, including spaces, can qualify as a string.

Stripper STRIPPER reads an input text file and produces an output file by replacing any control character visible. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 978)

Structured Programming Language A hybrid of structured BASIC in a PASCAL-type architecture, SPL is a very powerful programming language. See *Programming, BASIC*.
(PC-SIG Disk# 666)

Structured Programming, Educational See *Programming, Tools*.

StupenDOS Display and manipulate files with ease. Provides sorted directory trees, file tagging, mouse interface, file move, copy files to disk and fill in with smaller files, and find files. See *DOS Shells*.
(PC-SIG Disk# 1336)

Style Analyzers, Writing See *Word Processor and Text Utilities*.

Styled/Stylist STYLED and STYLIST can save you time in your revisions and help improve your writing style. See *Writing and Composition Aids*.
(PC-SIG Disk# 1181)

Subdirectory A separate place where files can reside which branches from the root directory or other subdirectory, usually on a fixed disk.

SUP Removes copy protection from most Sierra On-Line games such as the popular King's Quest and Space Quest, so you can make backups or install them on your hard disk. Does not handle self-booting disks. See *File Management Utilities*.
(PC-SIG Disk# 1406)

Super Lotto-Master Based on past winning numbers, generates best lottery number picks. Not a random-number generator, but rather a historically weighted system. Handles three, four, five, six, and seven-number games. See *Lottery*.
(PC-SIG Disk# 1407)

Super Nova You're just another drone facing another back-breaking, mind-numbing day in the mines on a god-forsaken mining planet far from anywhere. Now what? See *Games, Adventure and Text*.
(PC-SIG Disk# 952)

Super Pinball Five realistic pinball games: Black Box, Down the Chute, Double Trouble, Star Chamber, and Zipper. See *Games, Arcade*.
(PC-SIG Disk# 723)

Supercal and EGAcal SUPERCAL and EGACAL are calendar programs that let you keep track of dates and print out monthly and yearly calendars. See *Schedulers, Calendars, To Do Lists, and Ticklers*.
(PC-SIG Disk# 1308)

Supercom A standard, no-nonsense, asynchronous communications package. Communicate with other computers and transfer files via the phone lines. See *Communication Programs*.
(PC-SIG Disk# 717)

Survey System Determine people's attitudes or opinions on almost any subject. Create custom surveys and analyze the results. See *Survey Tracking*.
(PC-SIG Disk#'s 1035, 1036)

Survey Tracking

■ Survey System

SURVEY SYSTEM is a useful program for creating attitude or climate surveys. Anyone with minimal skills on the IBM-PC or compatible can create their own survey. You can create the kind of survey that makes a general statement; the reader then chooses one of five levels of agreement about that statement. You first create a pool of general survey statements/questions in a master file. The statements are then incorporated into your specific survey. They can be modified, deleted, or moved around, once on the specific survey. A neat feature of the program is it can place the survey output into text files. Once in these files, you can exit the program and use any

wordprocessor with them. They print in a usable format, but if you want to get fancy or use Ventura Desktop Publishing on them, this could be useful.

(PC-SIG Disk#'s 1035, 1036)

Special Requirements: *320K RAM and a hard drive.*

Author Registration: *$35.00*

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Surveying, Land See *Engineering.*

Swap Shop SWAP SHOP is a collection of various programs used for swapping printer and communication port addresses electronically. No more resetting mechanical switches. See *Utilities, System or Hardware.*
(PC-SIG Disk# 887)

Swapping Ports — COM and LPT See *Utilities, System or Hardware.*

SWCOM12 Switch RS-232 ports for COM1 to COM2. Very useful for programs that need to use COM1, especially communications packages. See "Baker's Dozen" listed under *File Management Utilities.*

SWLPT12 Switch printer ports for LPT1 and LPT2. Very useful for programs that need to utilize LPT1. See "Baker's Dozen" listed under *File Management Utilities.*

SXU Programmers — A utility for you. SXU extracts selected sections of data files according to your specifications and creates an output extract file with the data. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 962)

Synchronous, Asynchronous Communication See *Asynchronous Communication.*

T

T-Ref T-REF is a lister/cross-referencer to make Turbo Pascal programming easier and quicker. Features include: a full-screen driver, context-sensitive help, cross-reference selection, and more. See *Programming, Pascal.*
(PC-SIG Disk# 827)

Tarot Card See *Astrology and Fortune Telling.*

Task Master Helps you stay on top of all types of projects and tasks. Sets up database with customized forms that represent your activities and print custom reports. See *Project Management.*
(PC-SIG Disk# 1380)

TASM An assembler that creates code for 8 bit processors: 8048, 8051, or 6502. See *Programming, Assembly.*
(PC-SIG Disk# 643)

Tax Preparation

■ AM-Tax

AM-TAX helps you prepare your federal tax return. It does most calculations for you and, where possible, checks if the information you entered is consistent and valid.

Because it's powerful, you can try "what if" situations. Change an income or deduction and instantly see the result on your tax balance or refund. Many commonly-used forms and schedules are supported, as well as worksheets for specific situations such as capital gains, partnership and corporate income, and estate or trust income. Information entered or calculated for a supporting form is automatically transferred to the appropriate line it supports. All the forms can be printed and filed directly with the IRS.

(PC-SIG Disk# 479)

Special Requirements: *None. Printer recommended.*
Author Registration: *$20.00*

User Comments: *"I have struggled with many tax programs. This one is easy to learn and it gets the job done with mininum hassle." "I liked the program because it saved me from doing calculations."*

■ Tax-Planner

TAX-PLANNER is a question-and-answer program to help you estimate the income tax you'll owe Uncle Sam. Then, you can fine-tune your paycheck deductions so you'll have enough withheld when you file your returns the next year.

You can easily modify the withholding options, such as marital status, number of exemptions and additional taxes for withholdings. You can also estimate deductions from various employers and print reports each time an estimate is completed.

(PC-SIG Disk# 982)

Special Requirements: *None.*
Author Registration: *$20.00*

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Tax-Planner A question-and-answer program to help you estimate the income tax you'll owe Uncle Sam. See *Tax Preparation*.
(PC-SIG Disk# 982)

TC-Help An informative reference guide for Turbo C library functions. See "Utilities for Programmers" listed under *Programming, C*.

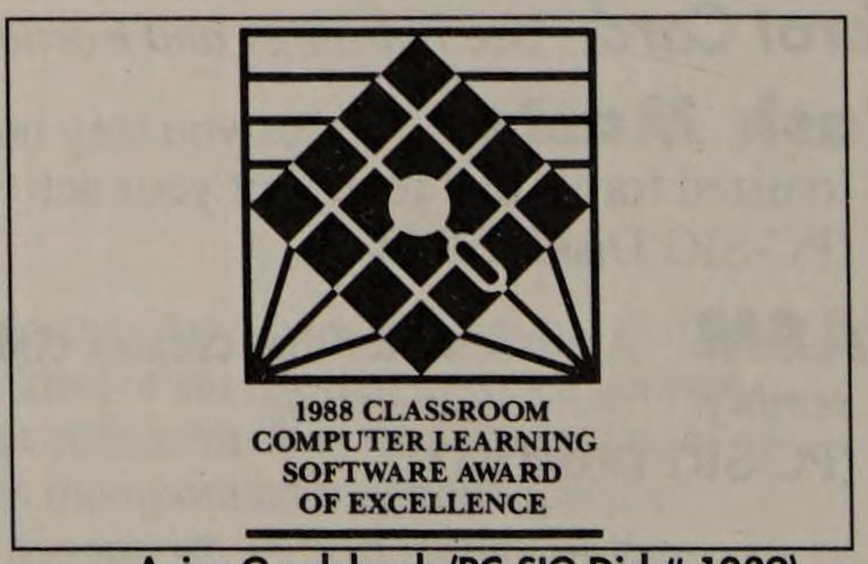
Teacher's Database A classroom management system for today's busy teacher. Everything from seating charts to progress reports to weighted graphs of class performance. See *Teaching, Grading Systems and Record Keeping*.
(PC-SIG Disk# 878)

Teaching, Grading Systems and Record Keeping

■ Aeius Gradebook

AEIUS offers teachers and administrators with multiple classes a versatile way to keep grade records of every sort. A fast, comprehensive program, AEIUS GRADEBOOK handles up to 20 classes of 48 students each, with 64 assignments per term.

Teachers can grade by letters, numbers, or virtually any known grading system. Student names can be encoded for privacy and security. Individual and class grades can be averaged, and adjusted to curve,s with different weights given different assignments and tests. It



Aeius Gradebook (PC-SIG Disk# 1239)

keeps tabs on missed assignments. Makeup grades are found at the touch of a key. Missing grades can be optionally excused or counted into grade averages. Weekly, monthly, and semester averages are generated, displayed, and printed for individuals or classes, if desired.

Using a window system to display every facet of the program, AEIUS GRADEBOOK guides the user every step of the way. Help screens are always at hand. Finding and correcting errors is easy. The ability to print out individual and class report cards gives AEIUS an A+. Although a hard disk is recommended, the small amount of RAM memory used permits AEIUS GRADEBOOK to be used on nearly any PC. The 20-page on-disk manual assumes virtually no computer knowledge on the part of users, teaches basics, and works its way into the program.
(PC-SIG Disk# 1239)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Class Record

CLASS RECORD is a spreadsheet-style program for maintaining grades and averages over the course of the school year.

A record of each student's name and grades is recorded. Give grades different weights, omit grades for absent students, and drop or change grades at any time. Calculate the total averages for each student and the total class average. You can also calculate a subset average for each student, such as the student's average for quizzes, tests, labs, etc. Printouts are available for many record combinations.
(PC-SIG Disk# 1071)

Special Requirements: *None.*
Author Registration: *$14.95*

■ Classbook Deluxe

CLASSBOOK DELUXE is a multi-function, menu-driven package that helps teachers keep track of attendance, homework, and test scores, just as in a regular classbook. It accepts raw scores, percentages, or letter grades.

You can calculate grades, as well as create and print progress reports, class lists, and seating charts. Get the complete status on any student at the touch of a few keys!
(PC-SIG Disk# 951)

Special Requirements: *Two floppy drives.*
Author Registration: *$25.00*
User Comments: *"Gift to my teacher, very helpful." "Great for post-analysis."*

■ Grader

Teachers — GRADER makes statistics that let you evaluate test quality and helps you establish grade breakdowns.

Just enter the number of problems in an exam and GRADER displays a table of possible scores based on the number of either right or wrong answers. GRADER can give standard statistics including range, midrange, median, mean, standard deviation, mode, skewness index, and a distribution of scores according to letter grade. The grade ranges are set by the program, but can be changed at any time. GRADER also displays listings of standard (Z) scores and all raw scores, ranked in descending order.

Other features include: Rapid computation of the score a student needs on a final exam in order to pass the course; random number selectors to determine the correct answers on multiple-choice questions and to draw items from a test item bank; and difficulty and discriminability indices.
(PC-SIG Disk# 1071)

Special Requirements: *None.*
Author Registration: *$15.00*
(PC-SIG Disk# 1134)

■ Gradescan

GRADESCAN is a menu-driven grade-keeping system designed with the busy teacher in mind. Its operation is so simple that it can be used with full confidence the very first time. Menu selectable options include: create/select class, enter assignments, enter grades, add new students, examine class data, and print reports.

GRADESCAN allows up to 17 classes to be created. Each class can contain 50 students and 14 assignments. The assignments can be weighted and student names can be copied into more than one class.

GRADESCAN was developed for teachers by a teacher. The program includes complete instructions on disk, self-explaining menus, and provides several sample class exercises for the new or timid user to experiment on without hurting anything!

(PC-SIG Disk# 1233)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Teacher's Database

TEACHER'S DATABASE is designed particularly for teachers to organize information on their students. The database can track up to 500 students, each student having as many as 80 individual items of data in his record.

Store names and addresses, alphabetize or reorder records based on their contents, sort by homerooms or subjects, and print individual student progress reports, class gradebook sheets, and student seating charts.

Student test scores may be weighted, averaged, statistically analyzed, changed to a percentage or a letter grade. Graphs of student test results may be created using the computer's high-resolution graphic screen. Grade distribution can be displayed numerically or as a histogram.

Let the computer do the paperwork while you focus on teaching. After all, that's why you became a teacher.

(PC-SIG Disk# 878)

Special Requirements: *None.*
Author Registration: *$35.00*

■ Var Grade

VAR GRADE is designed for teachers who want to keep a computerized record of their students' grades. Keep track of an unlimited number of students and up to 99 sections of students per class for up to 240 days of attendance. There is no limit to the number of classes.

VAR GRADE supports several grading methods, including weighted exams, use of letter or number grades, and the ability to throw out the lowest exam score(s). Several statistical features are also available through the program: calculation of mean, median, and mode for exams, correlation of two exams, and the ability to sum, average, or take the percentage of any combination of exams. Plot the exam results on your printer.

(PC-SIG Disk#'s 903, 1357)

Special Requirements: *None.*
Author Registration: *$30.00*

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Technical Illustrations See *CAD (Computer Aided Design) and Designing.*

Telecommunications The science of communication by electric, electronic, or electromagnetic means. For programs, see *Communication Programs.*

Telephone Area Codes See *Reference Materials (books/articles/information/data).*

Telephone Databases and Organizers See *Mail Lists, Address Managers, and Telephone Organizers.*

Template Templates are individual organized formats that are created for extremely versatile software programs. For example, a spreadsheet can be used for any number of different tasks, from doing a payroll to keeping track of a student's educational costs. Each different use requires a different template. A tax template might set up the spreadsheet to do anyone's taxes, but the data you enter into the template will allow it to calculate your taxes. Templates for most programs can be created by the user, but often ready-made templates are available for popular programs. For programs, see *Spreadsheet Templates.*

Terminal A keyboard and CRT connected to a computer so a person can input and view data and instructions. A terminal is usually one of many hooked to a large powerful computer. Generally a PC is not a terminal, but software can be used to allow a PC to log on to a large computer and act as a terminal. For programs, see *Communication Programs.*

Terminal Emulation The act of a PC pretending it is a terminal by imitating the input/output of terminals. It can also refer to one type of terminal imitating the input/output of another type of terminal. For programs see *Communication Programs.*

Terra*Time TERRA*TIME tracks and displays the local time in as many as 44 cities around the globe. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1127)

Test and Quiz Preparation

■ PC-CAI

PC-CAI is a computer language for the easy creation of computer-driven tutorials, tests, or demo programs.

Using the PC-CAI language, professional-looking graphics can be mixed with questions and text to produce a polished interactive program in minutes. The PC-CAI language has commands for interpretation of answers, responses to anticipated wrong answers, limiting the number of answer attempts, and more. The graphics tools provided permit color selection and suitable screen manipulation, as well as the ability to create and animate images.

PC-CAI provides a simple environment that even the computer neophyte can use to design helpful educational programs or games. The system comes with on-line help and a built-in word processor to create programs — although any ASCII processor can be used. There is even a PC-CAI generated tutorial on how to program with PC-CAI.

(PC-SIG Disk# 1470)

Special Requirements: *CGA.*
Author Registration: *$35.00*

■ PC-Quizzer

PC-QUIZZER is an educational program for instruction in almost any subject including foreign languages, history, science, math, vocabulary, trivia, and word definitions. PC-QUIZZER is an excellent educational tool and a must for anyone involved with learning or teaching, as it lets you create your own computer lesson. You can create quiz files using any standard ASCII text editor or wordprocessor.

You can create graphic images to use in the program with any graphics or painting package or a BASIC program. PC-QUIZZER lets you use color text, color graphics, and music. A VOTRAX speech synthesizer can also be used to produce speech. The questions used in a lesson can be true/false, fill-in-the-blank, or multiple-choice. Various levels of help and other information can be included and are displayed when the student needs help or has entered a right or wrong answer.

(PC-SIG Disk# 1143)

Special Requirements: *CGA.*
Author Registration: *$35.00*

■ Pop Train

POP TRAIN is a help system you can customize to train new users on your applications. This RAM-resident program lets you put help messages exactly where needed, available at the touch of a hot key.

POP TRAIN is especially useful when screens from mainframe programs can be downloaded to PC's. The problem screens that baffle many newcomers can be captured to disk. POP TRAIN will let you place hidden explanatory help messages in each area of difficulty. The bewildered beginner touches a hot key and the explanation appears at the cursor. Touch any other key and the message disappears.

The system is also invaluable when an older application is updated or expanded. Update the help system at the same time and many puzzled phone calls will never be made.

A PC-based, customizable, pop-up help and training system. Perfect for new and updated applications for PCs and mainframes. Training for novices.

(PC-SIG Disk# 1471)

Special Requirements: *Archival (ARC) software. (System is archived and not self- extracting.)*
Author Registration: *$49.95*

■ *Test and Train*

Whether you're a teacher wanting to give tests on the computer, or a student who needs to drill for tests or courses, or a manager who needs to administer training drills to your employees, TEST and TRAIN can help you do the job.

You enter the questions and TEST AND TRAIN displays them on the screen. The program offers slightly different scoring options for testing and training. In both cases, the program accepts valid answers and rejects inappropriate ones, showing the correct answer with an optional comment when the answer is incorrect. You can put incorrectly answered questions on hold, and view them again until the correct answer is given. TEST keeps score of points associated with correct answers, and counts the number of incorrect answers entered. At the end of the test, the program displays an optional evaluation, and stores the results in a permanent file on your disk.

(PC-SIG Disk# 797)

Special Requirements: *A word processor.*
Author Registration: *$11.88*

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Test and Train A quiz-builder and training program. Question screens accept answers to true-false and multiple-choice problems. See *Test and Quiz Preparation*.
(PC-SIG Disk# 797)

Test Drive Maintain the life and health of your disk drives with this utility. Protect your equipment and data with regular checks and maintenance. See *Utilities, System or Hardware*.
(PC-SIG Disk# 908)

Tests, Record Keeping See *Teaching, Grading Systems and Record Keeping*.

Text Adventure Games See *Games, Adventure and Text*.

Text Editor A program that allows revision, repositioning, and general editing of computer texts. A text editor generally has less formatting capabilities than a wordprocessor and may even edit only one line at a time. The line-by-line approach that text editors take is often very helpful for programmers. For programs see *Word Processors, Text Editors, and Outliners*.

Text File A document file which is stored in a universally accepted text format that can be displayed in conventional alphabet letters and/or numbers with the DOS command TYPE, or sent directly to the printer with the COPY command. Since shareware programs are usually distributed without any form of written documentation, text files are used to relay messages and instructions to the users.

Text Formatting See *Word Processor and Text Utilities*.

Text Indexing and Table of Contents See *Word Processor and Text Utilities*.

Text Searching See *Word Processor and Text Utilities*.

Text Sorting See *Databases*.

Text/File Handling Utility HUNTMOD searches out and replaces one word with another in your documents. HUNSTR sniffs through your hard drive, locating files having specified names or phrases you are seeking. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1404)

TEXTSRCH Search for specific text in any size text file and receive a report that will give numbered lines where the text occurs. See "Garc's Utilities" listed under *Printer Managers.*

Thesaur — A Thesaurus Program Need to find exactly the right word? Use this electronic thesaurus and expand your vocabulary. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1245)

Thi User Library Organize your priorities — whether for projects, jobs, chores, or whatever else makes it onto a to-do list. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1114)

Ticklers See *Schedulers, Calendars, To Do Lists, and Ticklers.*

TickleX A tickler, scheduler, and To-Do list manager, with up to 20 alarms to remind you at distant dates. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 934)

Tikler If you are faced with the problem of organizing and remembering many appointments and dates, TIKLER will be of great assistance. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1308)

Time and Money A simple financial record-keeping system that maintains a budget, tracks your cash, calculates interest, and much more. See *Accounting, Checkbook Management — Home.*
(PC-SIG Disk# 251)

Time Billing See *Accounting, Time-Billing Management.*

Time Tracker Automated billing system tracks accounts receivable and prints itemized invoices ready for mailing! Also documents time spent on client work. See *Accounting, Time-Billing Management.*
(PC-SIG Disk#'s 825, 1024)

Time Traveler Visit any of 12 eras of the past and answer history questions to gain gold and escape the maze of the Time Portal before you change the flow of history forever. A fun way to learn! See *Games, Adventure and Text.*
(PC-SIG Disk# 1075)

Time Zone Calculations See *Reference Materials (books/articles/information/data).*

TimeStar TIMESTAR is an ambitious daily scheduling program which makes the desk calendar obsolete. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 1481)

Tiny Fonts for HP Laser Jet Prints very, very small — allowing large quantities of text to be printed on a standard sheet of paper. Two fonts: MYOPIA and FLYSPECK. Get a magnifying glass! See *Printer Utilities, Laser.*
(PC-SIG Disk# 1224)

TLC for Trucks Fleet Managers — Here's menu-driven tracking for fleets of up to 1,000 vehicles! Track ROI, maintenance records, licensing, routes, and more. Report function helps with cost analysis. See *Auto/Vehicle Management.*
(PC-SIG Disk#'s 1085, 1355)

To Do Keep a "things to do" list in your computer AND in your pocket where you need it. See *Schedulers, Calendars, To Do Lists, and Ticklers.*
(PC-SIG Disk# 917)

To Do Programs See *Schedulers, Calendars, To Do Lists, and Ticklers.*

Tommy's Saucer The flying saucers are invading and it's up to you to stop them. Blast away, but keep your shields up. Age level: 8-14 years. See *Games, Arcade.*
(PC-SIG Disk# 1282)

Topic for Composition See *Writing and Composition Aids.*

Touch Type Tutor Learn how to type, brush up on old skills or improve your current speed. See *Typing, Education.*
(PC-SIG Disk# 1334)

TPC Utility that will convert your Turbo Pascal source code into Turbo C source. The Turbo C source code will be about 90% useful and will include a macro header. See "Utilities for Programmers" listed under *Programming, C.*

TPOP A memory-resident printer utility to use with any application. Use your printer as a typewriter or edit a full screen of text. Control the addresses of your serial and parallel ports. See *Printer Managers.*
(PC-SIG Disk# 1026)

Track and Field Record Keeping See *Sports Management.*

Tracker for the Visually Impaired TRACKER is a general-purpose income/expense tracking program written for the visually-impaired. The program is designed for use with a speech synthesizer, to vocalize information usually read from the screen. See *Visually Impaired, Programs.*
(PC-SIG Disk# 732)

TRANSTOK Download stock market information from the Source for manipulation with spreadsheets, graphics programs, and databases. See *Investment Management.*
(PC-SIG Disk# 323)

Tree A common diagram of files on a hard disk which can be displayed graphically as a tree. The root directory is the trunk or base and the subdirectories resemble branches with individual files attached to them as leaves. See your DOS maunal for explanation of the DOS TREE command.

TreeView A hard disk and file maintenance system with many powerful features, including on-line help and command line macros. Take control of your PC. See *DOS Shells.*
(PC-SIG Disk# 1243)

Trek Trivia One hundred questions to test your knowledge of the universe of Kirk, Spock, and the Enterprise. Call when you're done and Scotty will beam you up! See *Trivia.*
(PC-SIG Disk# 1278)

Trivia For you triviacs! Categories include Science and Nature, Entertainment, Sports and Recreation. See *Trivia.*
(PC-SIG Disk#'s 327, 328)

Trivia

■ Opus 1 Brain Teasers Trivia Game

Have you worn out your edition of Trivial Pursuit? Wish you could have more than six categories to test your brain cells? OPUS 1 BRAIN TEASERS fills this need.

OPUS 1 is a trivia-oriented game for up to four people. There are 25 different categories to choose from. A few of the diverse categories are: Body Talk, TV & Film, 1-2-3, Two-way Words, Books, and Plays.

The game is played much like you would play Charades, with the clues brought up as a graphic clue. For example, The Graduate has the clue "GRADUUUUUUUU" (Grad + eight U's = Grad-u-eight).

Have fun!

(PC-SIG Disk# 997)

Special Requirements: *None.*
Author Registration: *$19.95*

User Comments: *" Super, super, super!" "A great program. What I like the most is the variety of themes I can choose from."*

■ PC-Quizzer

Since 1800, who are the only two brothers who have served in the Senate at the same time? What is a hematophagouse? What was the first X-rated film to win the Best Picture Oscar award? What building is on the back of the five-dollar bill? Who cares? PC-QUIZZER does!

PC-QUIZZER is a computer trivia game that uses various subjects to get its questions. Before answering a question, you are asked what category tickles your fancy and then you must answer the question before time runs out. The categories range from television to mathematics, sports to history, and a potluck category where you never know what type of question will pop up. There are three rounds of questions and each round gets harder, so the points given when you answer a question correctly get higher also. After the first round, you can start to wage your points against the computer, so hopefully by the end of the third round, you have enough points to be in the Hall of Fame.

By the way, this program is so good I hear Alex Trabek has it on his computer at home.

(PC-SIG Disk# 1449)

Special Requirements: *None.*
Author Registration: *$25.00*

■ Trek Trivia

TREK-1 is the first of ten volumes that measures your knowledge of the world of Star Trek, one of the most popular television series of all time.

You may need to be part Vulcan to win this game! The 100 true/false and multiple choice questions are provocative. The game moves swiftly, the challenge is great, and the random questions beguile and sometimes frustrate even the most devout Trekkie.

(PC-SIG Disk# 1278)

Special Requirements: *None.*
Author Registration: *$5.00*

■ Trivia

A captivating trivia game which challenges you to put your knowledge of various categories of facts and fancies on the line.

The subjects range from Science and Nature to Entertainment, Sports and Recreation to that well-known classification — Mixed Bag. The questions are hard enough to keep your interest but do not require a doctorate to answer. Music and sound effects add to the interest and the fun.

For your next party, try matching everyone's knowledge against this one.

(PC-SIG Disk#'s 327, 328)

Special Requirements: *CGA.*
Author Registration: *None.*

■ Trivial Towers

Trivia freaks — here's a new twist on an old favorite!

TRIVIAL TOWERS, for two to four players, tests your knowledge of trivia on a variety of different subjects. By answering correctly, you build "towers." When all four towers have been completed, you win the game. There are special spaces on the gameboard, that, when landed on, let you choose any topic of your choice.

When you tire of the canned questions, enter your own questions and answers, and build a custom game. How about a section on your own family? How many times did Great Aunt Tillie marry? What is the one thing that Dad will NOT eat? You get the idea. Have fun!

(PC-SIG Disk#'s 473, 474)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Tune Trivia

Remember "Name That Tune"? Here's a new version.

TUNE TRIVIA plays songs on your PC so you can try to guess the songs' titles. Once you've answered correctly, you are then challenged with trivia questions about musical history.

(PC-SIG Disk# 475)

Special Requirements: *None.*
Author Registration: *$20.00*

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Trivial Towers A trivia game that tests your knowledge on a variety of different subjects. For two to four people. Build your tower first with correct answers! See *Trivia.*
(PC-SIG Disk#'s 473, 474)

Trojan Horse A computer program that "pretends" to do one thing and really does something else. It may pose as a utility and when you run it, it may erase files or format your hard disk. By acquiring software from a known source, you minimize your chance of getting a Trojan Horse. For programs, see *Security — File, Disk, or System.*

TSR See Memory-Resident.

Tune Trivia A name-that-tune game that evolves into a musical trivia game with each right answer. See *Trivia.*
(PC-SIG Disk# 475)

Turbo Apprentice TURBO APPRENTICE (TAP) is a TSR add-in for the serious Turbo Pascal programmer. See *Programming, Pascal.*
(PC-SIG Disk# 1459)

Turbo C A popular version of the C programming language, complete with compiler for the IBM PC. Sold by Borland International. For programs, see *Programming, C.*

Turbo C Programming See *Programming, C.*

Turbo C Tutorial With some programming background, you can learn the basics of C programming with this tutorial. See *Programming, C.*
(PC-SIG Disk#'s 816, 817)

Turbo Designer Programmer's toolbox for the Turbo Pascal compiler — helps you easily generate code to create pull-down menus, pop-up menus, and sophisticated help screens in your applications. See *Programming, Pascal.*
(PC-SIG Disk# 1353)

Turbo Enhancement Toolkit for C A set of six routines for your display, keyboard, printer, mouse, and disk. Improve the Turbo Pascal programming environment while working with version 4.0. See *Programming, C.*
(PC-SIG Disk# 1268)

Turbo Pascal A popular version of the Pascal programming language, complete with compiler for the IBM PC. Sold by Borland International. For programs, see *Programming, Pascal.*

Turbo Pascal Programming See *Programming, Pascal.*

Turbo Pascal Utilities A collection of utilities, some of which can be incorporated into TURBO PASCAL programs, others of which can be used by themselves. See *Programming, Pascal.*
(PC-SIG Disk# 1321)

TUTOR.COM Teaches beginning computer usage, including keyboard, DOS, and batch files. See *DOS and PC Training and Education.*
(PC-SIG Disk# 403)

Tutorials, DOS and PC See *DOS and PC Training and Education.*

Tutorials, Programming See *Programming, (Specific Language).*

Tutorials, Typing See *Typing, Education.*

Tutorials, Wordprocessing See *Wordprocessors, Education.*

Typerite Turn your PC and its printer into an electric typewriter for those "little" jobs. See *Printer Managers.*
(PC-SIG Disk# 860)

Typewriters See *Printer Managers.*

Typing A typing tutor program that gives feedback on your performance. See *Typing, Education.*
(PC-SIG Disk# 793)

Typing, Education

■ PC-FASTYPE

Don't let your lack of speed at the keyboard make computing a drag for you. Try this graphics-oriented, menu-driven, touch-typing instructor for typists of ALL skill levels. Improve your keyboard typing speed and accuracy.

Keyboard displays of both old-style PC and enhanced 101-key layouts are available for your monitor. Also provided are images for the Tandy 1000, Toshiba-3100 and T1200 laptop, the Zenith Z-171, and the IBM-AT. Use the self- paced drills and lessons to refresh old skills and learn new ones. After each test, check out your score on words per minute, number of errors made, and other data concerning your performance.

(PC-SIG Disk# 320)

PC-FASTYPE (PC-SIG Disk# 320)

Special Requirements: *CGA.*
Author Registration: *$20.00*

User Comments: *"Okay to learn typing. Lots of options." "My daughter likes it. Already helps me with my touch-typing skill." "Easy beginner. Progresses smoothly to tougher drills."*

■ PC-TOUCH

PC-TOUCH is a typing tutor with varying levels of difficulty ranging from the very easy, for the beginner, to the difficult, for the expert who wants to brush up his or her typing skills. The program gives you the line to type into the system, and all your statistics — showing actual typing speed, errors, and test-adjusted scores — are maintained along the bottom of the screen.

(PC-SIG Disk# 249)

Special Requirements: *None.*
Author Registration: *None.*

User Comments: *"Good repetitive practice in using science and math formulas. Financial routines helpful." "Improved my typing speed."*

■ Touch Type Tutor

TOUCH TYPE TUTOR is going to make you the fastest typist in town. Or, if you don't know how to type, this program will teach you.

The program has three teaching modes. The first is for the person who knows how to type but wants to be faster. It provides four different letters that you are tested on. After you have become proficient on these, you can add your own letters for variety. The second mode is a graduated series of lessons that allow you to move along at your own pace. The third mode is a game for the beginning typist that teaches the keyboard layout.

(PC-SIG Disk# 1334)
Special Requirements: *None.*
Author Registration: *$10.00*

■ Typing

Get those fingers of yours warmed up! Here is a new test for them. TYPING is an easy-to-use program that gives feedback on your typing performance. It displays the text on the screen, and you start typing — quickly, now! — and no mistakes! The timer starts as soon as you hit the first key.

TYPING does not display any statistics while you are typing. When the timer runs out, the screen clears, and your typing performance is displayed in words per minute, total errors, and adjusted words per minute. The nice thing about TYPING is you can either type from the screen or print the test file and type from that. You can also supply your own file to type if you want.
(PC-SIG Disk# 793)
Special Requirements: *None.*
Author Registration: *$20.00*
User Comments: *"Excellent for assessing typing skills of prospective employees. Good business application."*

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Ultima21 Play Blackjack as it's played in the casinos with the computer as the dealer. See *Games, Cards.*
(PC-SIG Disk# 791)

Unarchive To uncompress or unsqueeze a file that has been stored in archived form to save space. For programs see *Archive/Compression Utilities.*

UNDEL The ultimate utility. Get a file back after it has been accidentally deleted. See "Hard Disk Utilities" listed under *Hard Drive Utilities.*

Unerase of Files See *File Management Utilities.*

Units How many millimeters are in 5.76 inches? This calculator will do the conversion for you. See *Conversion Programs.*
(PC-SIG Disk# 1014)

UNIX An operating system developed during the early 1970s by Bell Laboratories and generally used on larger multi-user systems.

Upload, Download To upload files is to send files to another remote computer. To download is to take files from another remote computer, such as a BBS. For programs see *Communication Programs.*

User Supported Software An older way of saying Shareware.

Utilities for Programmers A collection of handy utilities for programmers and computer users in general. Includes: a C/Assembly library with 200+ functions, 52 Pascal utility routines, a window-

ing cursor controller, and much more. See *Programming, C.*
(PC-SIG Disk# 885)

Utilities Galore Most of these programs are printing utilities. Use your printer as a typewriter, print labels, set up a print spooler, and much more. See *Printer Utilities.*
(PC-SIG Disk# 1299)

Utilities, File See *File Management Utilities.*

Utilities, Macro Programs

■ Function Key Helper

Make lists of the uses of various function keys for various programs, and add or edit a function-key template. Many are already included on this disk — Lotus 1-2-3, WordStar, WordPerfect, Multimate, Procomm, SuperCalc, RBBS, Turbo Lightning, and more.

Once a template is created, you may print the function-key assignments for quick and easy reference. Up to eight templates may be printed on a page. They include the Shift, Ctrl, and Alt-function key sequences in addition to the normal uses.

(PC-SIG Disk# 856)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Hotkey

Have your keyboard do more of the work for you. Program specific keys to perform specialized functions, enter text strings, or series of lengthy repetitive keystrokes. Do more computing and less typing!

(PC-SIG Disk# 444)

Special Requirements: *None.*
Author Registration: *$15.00*

■ NEWKEY

NEWKEY keyboard enhancer simplifies the entry of common keystroke sequences by letting you assign these sequences to any key desired. Once assigned to a particular key, whenever that key is pressed, the predefined sequence of keystrokes are returned in place of the pressed key. For example, the Alt-C key combination might be defined as "copy" and, whenever you strike Alt-C, the string "copy" is displayed.

NEWKEY lets you customize software packages, readily create boilerplate passages, redefine your keyboard, and perform other useful tasks. You can even redefine your keyboard to the Dvorak keyboard if you wish. Several sample key definition files are included.

NEWKEY provides many features, including:

- Ability to define almost any key
- Menu macros
- Display macros
- Fixed-length pauses during key translation
- Nested key translation
- Translation bypass for native entry of defined key
- Dynamic display of the macro directory
- Dynamic display of macros
- Full-featured macro editor
- Easy change of any macro
- Ability to copy/move one macro to another
- Ability to move keyboard buffer into macro
- Ability to load, merge, and save macro files from within other applications
- Screen blanker for EGA
- Dynamic modification of the control keys

- Dynamic clear macros from memory
- User-defined dynamic define area length
- Time-delay pauses during key translation
- Ability to toggle NEWKEY on/off
- Slow typing mode
- 128 keystroke type-ahead buffer
- Ability to speed up keyboard repetition rate
- Improved macro definition facilities
- And much more

(PC-SIG Disk# 181)

Special Requirements: *None.*

Author Registration: *$43.00*

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Utilities, Printer See *Printer Utilities.*

Utilities, System or Hardware

■ 400

Attention, programmers — 400 inspects the BIOS communications area and the DOS communications area and displays them in human-readable form. It also displays some brief comments describing each byte in the communications areas.

(PC-SIG Disk# 874)

Special Requirements: *360K RAM.*

Author Registration: *$5.00*

■ Burn-In

BURN-IN tests your new PC to the limit to make certain that if there is a problem, it shows up before your warranty runs out.

BURN-IN makes your computer and drives do electronic pushups and deep knee bends for 24 to 72 hours. By then, the PC will either conk out and you can use your warranty, or it will last until it's obsolete. The basic rule is that electronic devices usually break during their first couple of dozen hours of heavy use, or else they will last a long, long time.

This program first runs a routine displaying ASCII characters. Then it runs graphics to exercise your CGA, EGA, or VGA card. As soon as it's finished, it generates random numbers and stores them on your disks and displays them. Then it erases the numbers and repeats the whole exercise over and over and over again.

(PC-SIG Disk# 1335)

Special Requirements: *None.*

Author Registration: *$10.00*

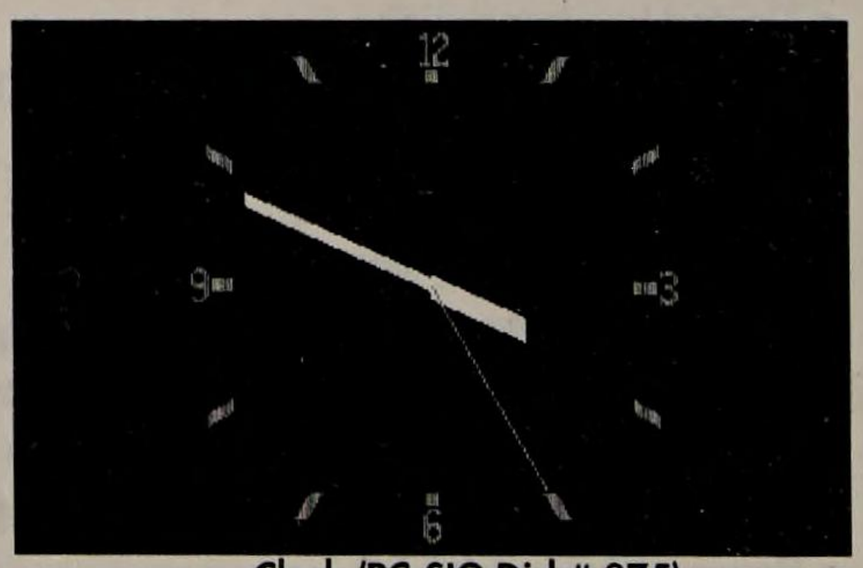
■ Clock

CLOCK displays a full analog clock face on the screen of your computer, including second hand, in real time taken from DOS. A menu-based help function is available to allow sizing and positioning of the clock on the screen, but the default is full-screen size. The C source code for the program is included.

(PC-SIG Disk# 875)

Special Requirements: *CGA.*

Author Registration: *None.*



Clock (PC-SIG Disk# 875)

■ CloneRom

Watch out, Big Blue! CLONEROM helps the dedicated hobbyist make his PC/XT/AT absolutely, totally IBM-compatible, right down to the programming of the chips in the motherboard. To obtain system-level compatibililty, you must install a true-blue ROM-BIOS. The full text from the IBM-PC Read-Only-Memory Backup Manual is ready to print to tell you how. Two utility programs are available to help you finish the job.

If you already own an IBM or clone, how would you like to have backup ROM and EPROM chips that cost less than IBM-programmed ICs? You can do it with CLONEROM. Save your entire ROM on disks as insurance against disaster.

(PC-SIG Disk# 1408)

Special Requirements: *None.*
Author Registration: *$9.95*

■ Colorset

Choose your screen color selections from a chart that supplies all of the available colors for your CGA, EGA, or VGA system.

(PC-SIG Disk# 1370)

Special Requirements: *EGA.*
Author Registration: *None.*

■ Date and Time

For those of you who do not have a clock card in your computer, here's a utility that quickly lets you enter the date and time during a computing session. The BASIC source code is provided.

(PC-SIG Disk# 908)

Special Requirements: *A version of BASIC.*
Author Registration: *$3.50*

■ Drivechk & Align

This package should occupy a prominent place on the reference shelves of any computer repairman! Just about everything you'd ever want or need to know about disk drive diagnosis and adjustment is included in DRIVECHK & ALIGN. The diagnostics provided are quite easy to learn and operate. However, be warned that both special tools and some level of hands-on technical experience in the repair field are necessary to use all the power built into this package!

The two separate documentation packages included are very thorough and obviously written by an expert in the field of drive repair and adjustment. Subjects are approached in an understandable step-by-step manner. You can't go wrong at the price, even if you're a rookie who only uses the program for periodic tests of proper drive function.

(PC-SIG Disk# 1087)

Special Requirements: *Xidex/Dysan diagnostic diskettes.*
Author Registration: *None specified.*

■ EGA Screen Save

A screen-blanking routine that shuts your EGA screen off after three minutes of keyboard inactivity. This helps prolong the life of your screen by preventing "image burn-in." Striking any key restores your video display.

(PC-SIG Disk# 789)

Special Requirements: *EGA.*
Author Registration: *None.*

■ EGAblank

EGABLANK blanks your EGA screen after two minutes of inactivity. Pressing any key will reactivate your screen.

(PC-SIG Disk# 978)
Special Requirements: *EGA.*
Author Registration: *None.*

■ Fansi-Console

A sophisticated memory-resident program which replaces the standard IBM PC console drivers.

Full support is provided for: IBM PS/2 product line for both video and keyboard for models 50 and up; VGA and Super-EGA, including 132 column and 60 row display drivers; enhanced 101/102 key keyboards, including foreign and "Brand X" keyboards.

FANSI-CONSOLE extends the ROM BIOS and processes ANSI X3.64 control sequences. Keyboard macros are supported — program-specific keys to perform complex series of keystrokes. Reconfigure your keyboard however you wish — even a Dvorak layout. Experiment with different drivers.

(PC-SIG Disk#'s 356, 650)
Special Requirements: *Two floppy drives.*
Author Registration: *$25.00 or $75.00 for full manual and updated version.*

■ Hdtest

HDTEST performs a read/write test on your hard disk without disturbing the data currently on it!

HDTEST writes 20 different test patterns to every cluster on the disk, checks that they can be read back correctly, and then carefully restores your original data! Extremely sensitive, it can even detect errors which are minor enough to be corrected by the disk controller's own error-correcting code (ECC) these errors are normally invisible to the user, but may be the first signs of future disk problems.

The program is also useful for automatic disk repair when you get intermittent or persistent read errors. Because HDTEST tries harder than DOS alone, it can often recover almost unreadable data from both hard and floppy disks and rewrite it — a real lifesaver when your backup fails you.

Simple to use, the program was written to minimize the likelihood of user error causing data loss on a good disk. HDCHEK, a companion program, gives you a quick compatibility report to tell you if HDTEST will run on your system.

(PC-SIG Disk# 1209)
Special Requirements: *Hard drive.*
Author Registration: *$35.00*

■ Hercules

Run programs requiring a CGA card on a Hercules Graphics adapter instead. This emulator allows such programs as PC-Paint, Printmaster, Flight Simulator, and many others to run with no visible difference.

(PC-SIG Disk# 641)
Special Requirements: *Hercules graphics.*
Author Registration: *$30.00*
User Comments: *"Impressive programming."*

■ HGCIBM

If you're the owner of a computer with a Hercules monochrome graphics adapter card, and have been lusting after a nice piece of color graphic (CGA) software, but can't run it because of your current computer set-up, this software will solve your problems.

HGCIBM provides owners of Hercules graphics cards with a means to run software written for the IBM Color Graphics Adapter. You need no additional hardware to run this emulator — HGCIBM works by "tricking" programs into thinking you have a color card when you don't.

With HGCIBM, a color program won't shut itself down but, instead, will continue to send video output to your monochrome screen. This program is one of the few "must-own" programs for all Hercules users.

(PC-SIG Disk# 870)
Special Requirements: *Hercules graphics.*
Author Registration: *$10.00*

User Comments: *"Easy to use. Works as promised." "Has worked on over 30 programs." "Now I can play Jeopardy President Elect! Expands upon my formerly B & W, only worlds cheaper than regular commercial programs.." "Fantastic! Works with nearly everything. Very good. I use it a lot." "The most useful disk I own." "Really does what is says it will do! Makes owning a Hercules card more fun."*

■ Montage2

MONTAGE2 is in this library for one reason: it's fun. It presents a colorful line display rivaled only by '60s music videos — a good way to show off your EGA system. You configure parameters that determine the color and pattern of the lines. It's self-documented with a help display during execution.

(PC-SIG Disk# 789)

Special Requirements: *EGA.*
Author Registration: *None.*

■ Patch

PATCH lets you view and modify disk files in memory, or peruse and change the computer's memory as if it were a disk file.

Display the contents of a file in memory, 256 bytes at a time. Move around in the file, modify its contents, cancel modifications, and search for specified strings. Move immediately to the beginning or end of a file or jump to a portion of the file that is a certain offset, in bytes, from the beginning of the file.

The file contents are displayed in both ASCII and hexadecimal. You can do searches and modifications in either format. Both formats of the file are viewed at the same time, with the hexadecimal on the left and the ASCII on the right.

(PC-SIG Disk# 779)

Special Requirements: *None.*
Author Registration: *$20.00*

■ PC-Kwick

Speed up disk-intensive programs with memory cache. Great for programs like WordStar that use overlay files. Redundant disk accesses are eliminated by storing frequently-read data in RAM memory. This RAM can be accessed instantaneously, unlike mechanical drives. The concept is similar to a RAM disk; however, you can gain more performance with less RAM requirements because PC-KWICK is smart enough to store only repeatedly-accessed code in memory.

PC-KWICK automatically allocates memory above 360K that is not used by DOS or other memory-resident programs. The program is designed for DOS 2.0 through 3.3.

(PC-SIG Disk# 1037)

Special Requirements: *384K RAM.*
Author Registration: *$5.00 to $26.00.*

■ PDVIM

PDVIM, is the shareware version of VIM (VIrtual Machine), an interpreter/debugger that can simulate and/or allow access to the hardware of an XT or AT in an addressing space independent of the normal hardware.

This debugger can stop execution at any point, examine or alter memory or registers, examine the program, determine where the program has been, and much more. Unlike DOS DEBUG and other debuggers, these functions are accomplished by a program outside the addressing space of the program or system under test, so VIM can never be altered or destroyed by the errant program.

VIM also can trace DOS itself, or the ROMs, and set breakpoints within ROM or on data. When a faulty interrupt code is reached, the breakpoint stops VIM, so the code can be traced and variables examined. VIM's virtual approach allows it to debug programs that others can't, including terminate-and-stay-resident programs, and device drivers.

(PC-SIG Disk# 962)

Special Requirements: *320K RAM.*
Author Registration: *$49.00*

■ RamTest

RAMTEST is a utility that tests your random access memory (RAM). It tells you which chips are faulty and need to be replaced. You can use the top line menus to indicate how reports are to be made, the types of chips you have, where to send error messages, parity, and how many times you want the test repeated.

RAMTEST tests RAM for all IBM PCs and clones, including those with expanded memory (beyond 640K), provided you have the Expanded Memory Manager in your CONFIG.SYS file, and an AT with extended memory. If you need a utility to test your RAM, this program is easy to use.

(PC-SIG Disk# 1123)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Reconfig

For the beginner, RECONFIG demystifies the combination of AUTOEXEC.BAT and CONFIG.SYS — two files which tell your computer what to do when you first turn your computer on (anything from setting your path to loading memory-resident programs).

A great tool for the hard disk user. RECONFIG lets you create and quickly change to a different DOS configuration. Instead of grabbing your DOS manual when you need to swap printers or drop your programs from memory, you'll make the needed change in minutes.

The program can maintain a database of up to 100 different configurations with its built-in editor and easy-to-use pull-down menus.

(PC-SIG Disk# 1218)

Special Requirements: *Hard drive.*
Author Registration: *$29.00*

■ Reconfig

RECONFIG is a handy utility for quickly reconfiguring your AUTOEXEC.BAT and CONFIG.SYS files. Multiple AUTOEXEC.BAT and CONFIG.SYS files can be stored by RECONFIG in a batch file that automatically switches files for alternative computer set-ups. The utility can also reboot your computer.

(PC-SIG Disk# 1037)

Special Requirements: *None.*
Author Registration: *None.*

■ SCRNOFF3 & KYLOCK

Here are a pair of protective utilities.

SCRNOFF3 blanks your screen after three minutes of keyboard inactivity. This avoids etching your monitor. Pressing any key brings the screen back into view.

KYLOCK blanks your screen and locks the keyboard from others. When the keyboard is locked, not even a Ctrl-Alt-Del routine reboots the computer.

(PC-SIG Disk# 779)

Special Requirements: *None.*
Author Registration: *$1.50*

■ Speech

SPEECH can make your computer talk — in a robotic tone of voice, of course, and you can have it say anything you want!

The memory-resident program can be added via a batch file to any of your programs so they will give a talking introduction. It reads from any standard text file, but the words need to be written phonetically. Several phonetic texts are included to give you an idea of how to write your own, and to get your computer talking right off.

Sixteen speeds are provided so you can use it on nearly any computer no matter what its processor speed, such as 8, 10, or even 33 megahertz. To start, you just pick one of the versions of SPEECH#.COM you think is close to your machine's speed, load it, and type READ (demo file of your choice). Unfortunately, you do have to reboot each time to try a different speed.

Depending on your computer's speaker, the results can be amazing or really bad. Getting your IBM-PC to talk without adding additional hardware is kind of like dancing dogs. It's not that they do it very well that amazes us...it's that they can do it at all!

(PC-SIG Disk# 1377)

Special Requirements: *None.*
Author Registration: *None.*

■ Swap Shop

SWAP SHOP is a collection of various programs used for swapping printer and communication port addresses electronically. No more resetting mechanical switches. Documentation and Assembly source code are included.

(PC-SIG Disk# 887)

Special Requirements: *None.*
Author Registration: *$3.00 to $5.00.*

■ Test Drive

TEST DRIVE is a floppy disk drive diagnostic utility for 5-1/4" 360K, disk drives with many tests to ensure that your disk drive is in working order. This can help to alleviate data loss or damage to your diskettes.

As the drive is tested, important operating parameters are displayed on the screen. A spindle speed test and read/write test of the disk drive can be done with just this disk. The alignment, hysteresis, head azimuth, and hub centering of your disk drive can be tested, but these tests require a precision alignment disk that is available upon registration.

TEST DRIVE can indicate when your disk drives need cleaning and has a utility for use with a standard cleaning disk. It can perform continuous tests for certain adjustments on your drives and can test the general performance of the drive before and after any changes are made.

(PC-SIG Disk# 908)

Special Requirements: *None.*
Author Registration: *$50.00*

■ Vector

Programmers — VECTOR inspects the interrupt vector table of your system and displays the vectors in human-readable form with some brief comments describing each interrupt. This is useful, because some interrupts are not standardized and are difficult to interpret.

(PC-SIG Disk# 874)

Special Requirements: *360K RAM.*
Author Registration: *$10.00*

■ ZZap

ZZAP is a disk editor that can read, modify, and write any sector on the disk, as well as any file by filename upon the disk — along the same lines as Norton's Utilities.

A 4096-byte buffer is used to hold the information to be written onto or read from the disk. Editing can be done on a byte-by-byte basis by entering the data in hex, decimal, octal, or ASCII format. You can also add, copy, or exchange the data of the current buffer.

(PC-SIG Disk# 874)

Special Requirements: *360K RAM.*
Author Registration: *$30.00*

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Utility Potluck Place notes in a DOS directory, protect your data with an encryption program, automate assigning sequential numbers to documents, or breeze your way through DOS with this collection of utilities. See *File Management Utilities.*

(PC-SIG Disk# 1101)

V

Vanilla Snobol4 An easy-to-learn, flexible language used for non-numeric applications, such as artificial intelligence, database analysis, text formatting, and more. See *Programming, Tools.*
(PC-SIG Disk# 980)

Var Grade This classroom manager can handle up to 500 students' records. You teach, and let this program do the paperwork for you. Many features. See *Teaching, Grading Systems and Record Keeping.*
(PC-SIG Disk#'s 903, 1357)

Varamort An amortization calculator for variable and fixed-rate loans. See *Loan Calculators.*
(PC-SIG Disk# 1323)

VCRDBASE Comedy, horror, drama — catalog your video library and print labels to identify your VCR tape collection. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 493)

Vector Programmers — VECTOR inspects the interrupt vector table of your system and displays the vectors in human-readable, form with some brief comments describing each interrupt. See *Utilities, System or Hardware.*
(PC-SIG Disk# 874)

Vehicle Management See *Auto/Vehicle Management.*

Vibrating, Rotating, and Cooling Visually portrays mathematical models of basic thermodynamic principles for advanced math and engineering students and their teachers. See *Math and Geometry Programs.*
(PC-SIG Disk# 1182)

Video Cassette, Record Keeping See *Movie/VCR/Music Databases.*

Video Librarian A menu-driven database for cataloging video cassette libraries. Record 18 types of information about each selection, perform cross-referenced searches, and print reports and labels. See *Movie/VCR/Music Databases.*
(PC-SIG Disk# 1424)

Virtual Library, The A book about the electronic society of the future, which explores the possible effects of easily-accessed information, and the rapid growth of knowledge in that society. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 979)

Virus A general term for any number of computer programs that can infect a computer by copying itself onto other disks or into other programs without the user knowing it. The virus then disrupts the computer operation by playing some sort of trick. Sometimes the trick can be malicious, sometimes a prank. PC-SIG guards against viruses by obtaining shareware programs directly from authors and keeping its systems insulated from outside software. Serious shareware users who are aware of the dangers of viruses find PC-SIG an excellent source for software.

Viruschk VIRUSCHK, a computer virus alarm, helps protect your system from viruses that can lie dormant and suddenly destroy all your files. See *Security — File, Disk, or System.*
(PC-SIG Disk# 1279)

Vision Freeware Math Toolbox: converts real numbers into fractions, calculates factorials, defines all prime factors, computes the greatest common divisor, and more! See *Math and Geometry Programs.*
(PC-SIG Disk# 1378)

Visual Display Editor (VDE) A small but powerful text editor perfect for laptops. All the standard functions, with some extras and no sacrifice in speed! See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 1273)

Visually Impaired, Programs

■ Catcher

CATCHER is an interesting twist on an old theme. The object is to catch falling characters with a paddle at the bottom of the screen. The twist is that the program was written for visually-impaired people and is designed for use with a speech synthesizer.

(PC-SIG Disk# 732)

Special Requirements: *Speech synthesizer.*
Author Registration: *None.*

■ Enable Reader Professional Speech System

The ENABLE READER PROFESSIONAL SPEECH SYSTEM was written to improve computer access for the blind and visually-impaired, and is actually two programs in one.

The "Full-Screen Speech Review System" is designed to let the visually- impaired use the wide selection of software written for MS-DOS compatibles. Now, programs like Lotus 1-2-3 or dBase are available to everyone.

The "Talking Tutorial Programmer's Aid" gives programmers access to many of the speech functions of the ENABLE READER to write talking tutorials for their software.

Several synthesizer language versions are included for the most popular synthesizers available.

(PC-SIG Disk#'s 674, 675, 676, 677)

Special Requirements: *Two floppy drives and synthesizer hardware.*
Author Registration: *None.*

■ Impaired Laser Font

IMPAIRED is a special soft font for the HP LaserJet II, specifically designed for printing materials to be read by persons who suffer from severe visual impairment. The bold, proportionately-spaced, uppercase characters print 7.5 lines per inch, with approximately 72 characters (maximum) per line. Though blurry to standard vision, this type style provides maximum distinction between letters for easy recognition by individuals whose sight is limited.

IMPAIRED is extremely useful both for personal use, if your sight is waning, to still be able to prepare and read your own printed notes, reports etc. — and for those who are creating books or reference materials for others with visual impairment.

The complete source code, written in Microsoft C, is provided for modifying the font.

A recommended companion PC-SIG program is Word Processing For Kids (PC-SIG disk #343), which features extra-large characters on the screen.

(PC-SIG Disk# 1223)

Special Requirements: *HP LaserJet II.*
Author Registration: *None.*

■ *Tracker for the Visually Impaired*

TRACKER is a general-purpose income/expense tracking program written for the visually-impaired. The program is designed for use with a speech synthesizer to vocalize information usually read from the screen. The documentation has internal help screens for each of the program's commands.

(PC-SIG Disk# 732)

Special Requirements: *Speech synthesizer.*

Author Registration: *$20.00*

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VMS Vocabulary Management System Allows you to make printed word search puzzles, anagram puzzles, and match-the-word-to-its-definition puzzles. Also lets you make educational games for playing on the PC. See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk# 1379)

Vocabulary Games and Quizzes See *Spelling, Word, and Vocabulary Quizzes and Games.*

VRef BASIC programmers — VREF (Variables Cross-Reference) is a programming utility which will show all lines where a specific variable is located in a BASIC program. See *Programming, BASIC.*
(PC-SIG Disk# 875)

W

W-ED A small editor and wordprocessor with easy-to-remember commands. See what your pages will look like before printing. Any ASCII file can be edited. See *Word Processors, Text Editors, and Outliners.*
(PC-SIG Disk# 415)

Wagering See *Gambling.*

Wampum A fast dBase III-like system with 25 of the most common database functions. Read existing dBase III files or create new ones. See *Databases.*
(PC-SIG Disk# 830)

Warnier Diagram See *Programming, Tools.*

Weak Link Use WEAKLINK to transfer files between your PCs via RS232 serial ports. Primarily used to allow file transfers between two machines that have different or non-removable media. See *Communication Programs.*
(PC-SIG Disk# 893)

Wedding Portraits, Record Keeping See *Photography.*

Weight Control WEIGHT CONTROL is a collection of dieting utilities to help you in your weight-loss program. See *Health Management.*
(PC-SIG Disk# 1325)

Weight Loss See *Health Management.*

What Maintain a listing of your files and directories with a 61-character description for each. Know what's what with WHAT. See *File Management Utilities.*
(PC-SIG Disk# 1305)

Wheel of Misfortune We've all said "I can do that" when it comes to guessing the letters on THAT game show. Here's your chance to prove it, with a couple of twists added. See *Spelling, Word, and Vocabulary Quizzes and Games.*
(PC-SIG Disk# 891)

Whereis Lost a file in a subdirectory? Find that file or files with the same extension on your drive. WHEREIS will tell what subdirectory your file is in, and the name of that file. See "Best Utilities" listed under *File Management Utilities.*

Whiterock Alternative Worksheet manager shell with several financial spreadsheets and a library of macros/templates. See *Spreadsheet Templates.*
(PC-SIG Disk# 583)

Wild Card Two characters which can represent any character in the search for a filename. * represents any string of characters, while ? represents any single character. These wild card characters make it possible to manipulate groups of files by not specifying part or all of the filenames and extensions. See your DOS manual for further explanation.

Wildcat BBS A new bulletin board system which even the relatively inexperienced user can set up and operate. Built-in security system. See *Bulletin Board Systems (BBS).*
(PC-SIG Disk#'s 745, 746)

Willy the Worm Build your own Donkey Kong-like screens and catch Willy! Clever arcade action for all ages. See *Games, Arcade.*
(PC-SIG Disk# 445)

Window An area of a screen set aside for a particular purpose, such as a help window or a menu. "Windowing" can refer to the process of going back and forth between two programs or between a program and DOS without exiting applications.

Window Boss C programmers — create pop-up windows, pull-down menus, status lines, and context-sensitive help functions in any program you write. See *Programming, C.*
(PC-SIG Disk#'s 873, 1113)

Winning Bid, The Everything you need to run a successful auction except the auctioneer. See *Business Specific Systems.*
(PC-SIG Disk# 1388)

Wire Frame Models (CAD) See *CAD (Computer Aided Design) and Designing.*

Wizquiz WIZQUIZ is an educational program that offers randomly-generated problems across a wide area of the average elementary school mathematics curriculum. See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 922)

Word Games See *Spelling, Word, and Vocabulary Quizzes and Games.*

Word Processing for Kids A simple word processor program originally designed for children but the extra large letters make it useful for near-sighted adults as well! See *Children's Programs (ages 2-10).*
(PC-SIG Disk# 343)

Word Processing Preview System See what your pages will look like before printing. Any ASCII file can be previewed. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 415)

Word Processor and Text Utilities

■ Alchemy Desktop Publishing Utilities

If your desktop publishing efforts seem a little plain, spice them up with this collection of seven utilities for Xerox's Ventura Publisher!

GCAP imports charts, graphs, pictures, or anything else in graphics mode that you want to use in desktop publishing. These files are written directly to disk, complete with compression and a suitable GEM/IMG file header. GCAP works with a CGA, EGA, or Hercules graphics card.

HP-SLASH hacks unwanted characters out of your soft fonts to create leaner, faster files. It works by creating a new soft font from an existing one, but only includes the characters you want.

MAC2IMG converts standard MacPaint image files into GEM/IMG-compatible paint files, suitable for use with Ventura 1.1. MAC2PCX converts them to PC Paintbrush-compatible PCX files.

MCOPY is an enhanced COPY command to copy several files onto floppies. It sorts through the files to be copied and begins with the largest one that fits on a disk. It fills in the remaining space with smaller files, to use as much of the floppy as possible. If there are still files to be copied when the disk is full, the program pauses and asks for another floppy. It then proceeds to fill that floppy as well. MCOPY also performs an authentic 16-bit CRC check on every file.

SCOOP lets your PC look at PC Paintbrush, MacPaint, or GEM/IMG pictures.

VENTURA FONT MACHINE is a menu-driven front-end to create width tables for soft fonts used with LaserJet Plus compatible printers.

(PC-SIG Disk# 1360)

Special Requirements: *Xerox Ventura Publisher for some programs.*
Author Registration: *$5.00 each. $20.00 for source code.*

■ AnyWord

ANYWORD is a text indexing and retrieval program consisting of two parts: Indexer which produces an index, and Finder, which locates words in text. Like a book index, your text is untouched. All of the indexing information is put in a separate file, and your text files are not modified or rearranged in any way. This means you can experiment with ANYWORD as much as you want without the worry of making an inadvertent change to your text files.

You supply information about your files through the profile file, used by both Indexer and Finder. Some ANYWORD features:

- Searching by any word or combination of words
- Display of selected text
- Extraction of selected text into new files
- Searching with simple Boolean logic, AND - OR - NOT
- Searching with "wild cards," e.g., comput? for reference to computers, computing, and so on
- Exit to DOS and return without disturbing selected text or search results
- Review of previous search results within a session
- View of all the words that have been indexed
- Automatic file location via the DOS PATH operation

ANYWORD is useful for locating simple information or combinations of text. It also extracts chunks of text into new files and allows browsing through a collection of files from any point within any file. You can page backward, forward, across files, to the beginning, to the end, etc.

(PC-SIG Disk# 1200)

Special Requirements: *Two floppy drives.*
Author Registration: *$35.00*

■ Armada Utilities

A collection of utilities developed on Tandy computers for use in wordprocessing, printer control, screen display, and electronic music composition. ALTPAGE lets you print on both sides of a page by splitting an ASCII file into two separate files, while allowing you to specify the page lengths. CASE changes an ASCII or WordStar file into all upper- or lower-case characters. CRLF converts the carriage return of an ASCII file into a carriage return, plus

a linefeed, or vice versa. DOCMAKER creates an executable .COM file from an ASCII file. You will be able to read an existing file and edit it, display the text, and change the screen colors. TSRMAKER, similar to DOCMAKER, can also retain the file in the background for a pop-up display when you want it.

PRINTIT is a simple page formatter that lets you set margins and include headers and page numbers. AUTHOR is a program which performs the functions of both ALTPAGE and PRINTIT while giving you a notepad, a quick text viewer, a typewriter emulator, a WordStar to ASCII converter, and a quick directory viewer. FXPRNT is a setup utility for an Epson-FX or Brother printers.

FRQCNV4 prints musical staff paper, converts a frequency to the nearest musical note, and vice versa, and can change one key to another. MIDIPOP pops-up tables showing a list of MIDI commands in hex and decimal for programming the MIDI synthesizer. CASIOID generates a random text patch for the Casio CZ-101 or CZ-1000 synthesizer.

Two additional programs are CRT31, which allows you to change the screen colors, and CURSOR, which changes the size and blink rate of the cursor. BOOTFIX and RB1000 give Tandy 1000 users means for speeding up the rebooting of their systems.

(PC-SIG Disk# 1376)

Special Requirements: *CGA.*
Author Registration: *$20.00*

■ AVScripter

AVSCRIPTER is a full-screen text formatter specifically designed for formatting audio-visual scripts. It works from text files prepared with your wordprocessor.

The program can send two-column output — single- or double-spaced — to your printer, screen, or disk. It numbers and renumbers your scenes, looks for the best place to start each new page, then adds the appropriate "Continued" where necessary. The title lines are automatically centered and a header is printed on each page. You can switch between full-width lines and two-column format within a particular script.. The pages are automatically numbered. AVSCRIPT can send to your printer, print selected pages, or multiple copies, and queue files for processing.

(PC-SIG Disk# 1028)

Special Requirements: *A wordprocessor capable of ASCII file output.*
Author Registration: *$20.00*

User Comments: *"I have struggled with many scripting programs. This one is easy to learn and it gets the job done with mininum hassle." "Does its job." "AVScripter: Good program with good documentation."*

■ BIBLIO

Writers, Students, Editors — BIBLIO will interest you.

BIBLIO selects references from a pre-existing text file with a list of bibliographic references. Each reference can have up to five labeled fields, such as author, title, source, keywords, and notes. The number, length, or sequence of fields need not be the same for different references.

You can request selection of those references with a desired search phrase in a specified field. You can send the output of the selected records to the screen, printer, or disk.

(PC-SIG Disk# 935)

Special Requirements: *None.*
Author Registration: *$15.00*

■ Breaker

BREAKER is a life-saving utility when you have a text file that is too large to fit in your wordprocessor. Invoke BREAKER and you are asked what file you want to break and how many lines each of your broken files will contain. The files are saved with any name you desire that has a sequentially added number attached to it for easy tracking.

Once you have worked with your broken files, put them back together again in the same fashion. A very easy program to use that should be in any person's utility library.

(PC-SIG Disk# 978)
Special Requirements: *None.*
Author Registration: *None.*

■ CopyFit-It

Copyfitting is the process of figuring out what typesetting format will make a text fit the space available for it in a layout. Try various typeface (or typefaces) from those available from your typesetter. COPYFIT-IT makes copyfitting faster and easier.

The essential data needed is the character count and the type size. COPYFIT-IT can calculate the height and number of lines for paragraphs. Determine the line length, the characters per line, and number of characters in the line. This program can copyfit individual lines of type with the same or different type sizes, paragraphs, paragraphs and individual lines together, or long texts.

(PC-SIG Disk# 898)
Special Requirements: *None.*
Author Registration: *$54.00*

■ DCA Conversion for PC-Write

DCA CONVERSION climbs two mighty compatability mountains and brings to the world of shareware solutions to problems IBM has long ignored. The biggest involves a duo of programs that convert text on IBM mainframe environments from EBCDEC to microcomputer ASCII. This allows mainframes to share files that were created with PC-Write. Likewise, PC-Write files can be converted to EBCDEC, for the most part, and sent to mainframes.

The same programs allow microcomputers using different wordprocessing programs to communicate. CDA CONVERSION lets PC-Write transfer files between any program that will accept DCA files. Many popular programs will accept DCA files, including Ventura Desktop Publisher.

(PC-SIG Disk# 1295)
Special Requirements: *None.*
Author Registration: *$20.00*

■ Doc Master

DOC MASTER is a set of utilities for printing and viewing on-disk documentation files.

With READ, you can display a file on the screen and scroll through the text. WAIT makes the printer print only single sheets at a time. PRINT prints unformatted or partially-formatted ASCII text files. PRINT also lets you set the left margin, specify the lines per page, print a selected page-range, select a header with auto page numbering, and select either single-sheet or continuous-feed paper.

(PC-SIG Disk# 950)
Special Requirements: *Printer.*
Author Registration: *$20.00*
User Comments: *"Good implementation for adding control codes to format documents."*

■ Dovetail III

DOVETAIL III merges a form letter with addresses from a mailing list and even addresses envelopes. It works with mailing lists and form letters written with WordStar, Easywriter, or PerfectWriter. Source code is in BASIC and the executable program file is also included.

(PC-SIG Disk# 877)
Special Requirements: *Printer.*
Author Registration: *None.*

■ Every Other Page

EVERY OTHER PAGE paginates your text files so you can print on the front and back of pages while maintaining the proper text sequence. The program saves you paper, helps your documents fit into one binder, and gives your reports the look of printed books.

EVERY OTHER PAGE takes any text file and breaks it up into 56 lines per page, and into odd pages (1, 3, 5...), which are to be printed on one side, and even pages (2, 4, 6...), which are printed on the other side. First, it prints the odd-numbered pages and when finished, prompts you to reverse the paper in the printer so the other side can be printed with the even-numbered pages.

(PC-SIG Disk# 1428)

Special Requirements: *Printer.*
Author Registration: *$15.00*

■ EZCount

Writers, secretaries, transcribers — Count the number of words in a standard ASCII file. Bells and whistles are minimal. It counts words and displays how much time the program took to count.

(PC-SIG Disk# 724)

Special Requirements: *None.*
Author Registration: *$10.00*

■ File Browser

With FILEBROWSER, you can view the largest ASCII or WordStar files, and chop them down to size to fit your wordprocessor.

This menu-driven tool lets you access big files, view them on the screen, copy specific blocks, and print to a designated device. You can read a screen at a time, jump back and forth within the file, or have the text automatically scroll. It provides a quick search function for locating a particular word or line of text in a file. A DOS shell is provided for easy access to an editor or wordprocessor, and the program offers on-line help and a well-written 10-page operations manual.

(PC-SIG Disk# 1398)

Special Requirements: *CGA.*
Author Registration: *None.*

■ Grab Plus

GRAB PLUS is a memory-resident utility that grabs an address typed with a wordprocessor and immediately prints it.

While using your wordprocessor, you can call up the GRAB PLUS menu by pressing a selected hot key. A box then appears which is used for grabbing the address to be printed. It does not matter what the size of the address is because you can adjust the size of the box. You can edit the address before printing or even type in a whole new address. GRAB PLUS also prints a default return address on the envelope. Once the address is printed, GRAB PLUS disappears back into memory, returning you to normal computer operation.

GRAB PLUS has a database that stores and organizes address information that you can easily access for printing. You can also mark groups of addresses to be printed at one time. The database can import or export data with other programs. GRAB PLUS is the program to grab if you want an easy and quick way to print out nicely typed envelopes with your computer.

(PC-SIG Disk# 1145)

Special Requirements: *None.*
Author Registration: *$15.00*
➤ ***ASP member.***
User Comments: *"A fantastic time saver. Especially with a laser printer."*

■ LetterWriter

LETTERWRITER is a different kind of address manager — its specialty is mailmerge. You can keep address files full of different "kinds" of people; i.e., business acquaintances, friends, or relatives. You can sort these different files by first name, last name, or zip code, just as you would a more traditional database address manager.

But with LETTERWRITER you can also merge the database information into an ASCII document, such as a letter that has been created in a wordprocessor. In this way you can imbed names, phrases, or paragraphs into the body of a letter. And you can create form letters by simply typing out one letter you want to send to any number of different addresses and specifying those addresses. LETTERWRITER automatically prints a letter with each address. It can also print labels, envelopes, address books, and lots more.

(PC-SIG Disk# 719)
Special Requirements: *ASCII wordprocessor.*
Author Registration: *$39.00*

■ MSPANTOC

Writers — here's a useful addition to your library.

MSPANTOC reads a document you created on a wordprocessor and writes a new document, updated with:

- Assigned section, paragraph, figure, and table numbers
- Resolved cross references
- A table of contents
- A list of figures
- A list of tables

MSPANTOC is not a wordprocessor or an outline generator. It complements your existing wordprocessing package by providing the numbering and cross-reference features not available with many current wordprocessing packages. It works with WordStar, WordPerfect, or any other wordprocessor.

(PC-SIG Disk# 935)
Special Requirements: *None.*
Author Registration: *$35.00*

■ Multi-Merge

MULTI-MERGE facilitates adding, editing, deleting, sorting, and printing information for later merging into your wordprocessing merge documents. Data can be sorted by name, company, zip, or two key fields you tailor to your own specifications. It is not a program meant to replace a wordprocessor, but rather to enhance it.

With MULTI-MERGE, you can manipulate your list, create your merge list, and then use your wordprocessor to merge the list with the wordprocessor's merge document. The program is easy to use and completely menu-driven, but you do need to know your wordprocessor's merge functions and DOS to operate the program with facility.

(PC-SIG Disk# 1152)
Special Requirements: *512K RAM, two floppy drives, and an Epson-compatible printer.*
Author Registration: *$10.00*

■ Neat Text Formatter

NEAT reads in a standard ASCII file format created by most wordprocessors and writes a "formatted" file in output. Use NEAT and you can:

- Print multiple copies
- Begin and end on specified pages of a document
- Pause for single-sheet feeding
- Make room for your data during text formatting
- Include other text files, up to a nested level of four
- Include merge fields from a second merge file

NEAT also has font controls for double width, boldface, double strike, italics, two forms of underlining, letter-quality mode, headers and footers for every page, automatic page numbering in header or footer, even/odd page margin shifting, line centering, adjustable line spacing, and more.

(PC-SIG Disk# 950)
Special Requirements: *Printer.*
Author Registration: *$15.00*
User Comments: *"Good implementation for adding control codes to format documents."*

■ PC-Write Font Selector

FONT SELECTOR was written for PC-Write users with Hewlett Packard LaserJets and compatible printers. It enables them to select, with print controls within their text, the fonts built into the HP, the HP cartridge, and hundreds of commercially available soft fonts! It's a poor man's desktop publishing.

This program is a boon to graphic artists whose customers request a wide variety of type faces and sizes for their documents. Firms which generate their own documents will find that their ability to create custom-looking documents is greatly enhanced.

FONT SELECTOR works by creating special print control files for each font you use. It also creates a download batch file that copies the soft fonts into the printer's memory. Simple control characters within PC-Write are then used to tag text.

(PC-SIG Disk# 1267)

Special Requirements: *Hard drive, LaserJet printer, and PC-Write.*
Author Registration: *$20.00*
➤ ***ASP member.***

■ PC-Write Macros

PC-Write devotees will enjoy a macro feast with this collection designed for shareware's most popular wordprocessor. You also get a mass of information and three tutorials to educate you on macros — their care and feeding.

The program is a library of scores of macros awaiting the moment you need them. These macros can solve many problems such as protecting against accidental deletions, copying, or text movement. New ways to reformat paragraphs and single lines are offered. You will be able to transpose single words and groups of words. You'll delete from the cursor left or right to the end of the line. Best of all, macros can speed up your computing if you repeatedly use the same PC-Write commands or need to retype the same text string many times.

A choice of four versions of keyboard and keypad options are provided. You can load macros as you need them or keep them in memory to use again and again. You can load them singly or in groups.

(PC-SIG Disk# 1457)

Special Requirements: *PC-WRITE v2.7 or higher.*
Author Registration: *$5.00*
➤ ***ASP member.***

■ PC-WRITE Pagemaker Import Filter

PC-WRITE PAGEMAKER IMPORT FILTER allows PC-Write users to transfer PC-Write documents into a Pagemaker environment while retaining most of the formatting.

(PC-SIG Disk# 1267)

Special Requirements: *Hard disk drive, PC-Write, and Pagemaker.*
Author Registration: *None.*
➤ ***ASP member.***

■ PenName

Writers — Here's a program to help you choose a pseudonym for yourself and the names of the characters in your next opus!

PENNAME is a lighthearted way to find the penname of your destiny or that perfect combination for the heroine of your next novel. You choose from lists of first and last names that catch your fancy. Then it mixes and matches them until you decide you like the results. You can even add your own pet names if you like, or choose a name for your pet!

(PC-SIG Disk# 1403)

Special Requirements: *340K RAM.*
Author Registration: *$6.00*

■ PROINDEX

Writers, Students, Editors — PROINDEX lets you negotiate the most problem-filled part of writing a document or book: building the index.

PROINDEX saves you the trouble of having to handmark each and every word you want in your index. You simply provide a file of words listing the keywords you want to be in your index, and PROINDEX searches your document and marks all occurrences of those keywords. Works with any ASCII text file (as well as WordStar files).

(PC-SIG Disk# 977)

Special Requirements: *None.*
Author Registration: *$65.00*

User Comments: *"Good tutorial. Makes a nice index from your document, based upon words you enter in a key file."*

■ REFLIST

REFLIST is an easy-to-use program that lets you create and format lists of references, bibliographies, and footnotes — elements which are always a problem for the writer submitting material to a variety of publishing houses, each with its own specific requirements.

The truly unique feature of REFLIST is that once your paper has been written, it reformats your references into different user-defined formats. You can submit a paper to one publisher with the references in one format and then, with REFLIST, reformat the references to a different format expected by another publisher — all quickly and easily. In addition, REFLIST has instructions for quick integration into WordPerfect, PC-Write, or any ASCII-based wordprocessor.

(PC-SIG Disk# 231)

Special Requirements: *None.*
Author Registration: *$30.00*

■ SeekEasy

SEEKEASY is a very easy-to-use, "flexible match" information- retrieval program which lets you search a text file for a character string and lists the "best matches" to your request in the order of match quality. It can do this even if the item found is not exactly what you requested, or has words in it that were not in your request, or doesn't use words spelled exactly the same way. Because of the flexibility of the program, it can be used for a multitude of uses, both for personal and business needs.

(PC-SIG Disk# 820)

Special Requirements: *None.*
Author Registration: *$30.00*

User Comments: *"Extremely flexible data search and retrieve utility. Great for finding data when exact wording is not known."*

■ Shuffles

Want to print on both sides of the paper? You could figure out how your file will be printed, break it up and feed the parts to your printer one at a time (and hope that you didn't make an error) — or — you can use SHUFFLES, a computerized collator.

SHUFFLES breaks your text file into chunks and rearranges them so your dot matrix, daisy wheel, or laser printer can print on both sides of the paper without getting the page order messed up.

(PC-SIG Disk# 1312)

Special Requirements: *Two floppy drives.*
Author Registration: *$30.00*

■ Stripper

STRIPPER reads an input text file and produces an output file by replacing any control character visible. You have the option of deleting characters in the ASCII character set that are above 126, below 126, 126 only, below 32, above 32, delete spaces, or any combination in between.

(PC-SIG Disk# 978)

Special Requirements: *None.*
Author Registration: *None.*

■ SXU

Programmers — A utility for you called THE SELECT XTRAC UTILITY (SXU). SXU extracts selected sections of data files according to your specifications. It accepts any standard ASCII sequential files composed of character or numerical data.

The input file to SXU cannot have embedded control characters except for normal print-control characters. SXU reads the input data file and creates an output extract file with the data between your specified start and end strings in the input data file.

SXU can extract data and append it to an already-existing extract file, and allows up to 32 different extracts from a single file at one time. On-line help and directions are included.

(PC-SIG Disk# 962)

Special Requirements: *320K RAM.*
Author Registration: *$15.00*

■ Text/File Handling Utility

You've just finished the Great American Novel, only to discover you've misspelled the name of a key historical figure. You can ask for your old job back or you can use HUNTMOD! Coming to your rescue, HUNTMOD searches out every misspelled name and replaces it with the correct one!

Or have you forgotten in which file(s) you wrote about a particular subject, or placed a valuable snippet of data? Let a companion program, HUNSTR, sniff them out. This program looks for phrases or names you indicate (up to 10 at a time), and tirelessly searches through all your files. When a match turns up, it records the names of specific file(s), and where it discovered them.

Other utilities in this set are small improvements to the DOS commands DEL and TYPE. QDEL deletes filenames listed on the command line from the specified directory or drive, but stops and queries first, "Do you really want to do this?" This gives you one last chance to avoid disaster. FVIEW lets you read text files the same way as TYPE, but also lets you view a screen at a time, automatically, without having to play rapid-fire with the CONTROL-S command.

(PC-SIG Disk# 1404)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Thesaur — A Thesaurus Program

Searching for the right word to say what you really mean? This computerized thesaurus should help you become both more stylish and concise (make that succinct!) in all your writing and prepared speeches.

Add panache to your letters, eloquence to your term papers, and a Phi Beta Kappa impact to your speaking endeavors by spending just a few minutes with THESAUR. When you call up a word, you are provided an array of synonyms and related words. Set the pointer over your synonym of choice and you get a definition to confirm its aptness.

(PC-SIG Disk# 1245)

Special Requirements: *None.*
Author Registration: *$20.00*
➤***ASP member.***

■ Word Processing Preview System

See what your page layout looks like before you print your document. Experiment with different formatting options without printing a single page!

The WORD PROCESSING PREVIEWING SYSTEM (WPPS) gives you a picture of page layouts from any ASCII wordprocessor file. WPPS draws from one to 18 rectangular "pages" on your color display and then fills them with output to show you exactly how your document will look when printed. Repeating the operation, up to 18 pages at a time, is an invaluable tool for saving time and paper!

The previewer is especially useful when dealing with documents of 100 or more pages, and can quickly pay for itself in paper saved.

(PC-SIG Disk# 415)

Special Requirements: *CGA.*
Author Registration: *$40.00*

■ WordStar 2000 Mouse Menus

Finally...inexpensive rodent support for WordStar 2000! MOUSEMENUS lets you add Logitech, Microsoft, or compatible mouse capabilities to WordStar 2000.

Two menu versions are provided for each type of mouse. The long version has an opening menu, and supports all the wordprocessing functions as well as menus. Although it requires an additional 4K of RAM, it is recommended as the more useful and versatile menu version. The abbreviated version is for editing use only. On-disk instructions are ample and well-written.

(PC-SIG Disk# 1416)

Special Requirements: *384K RAM, WordStar 2000 (v2.x or higher), and DOS v3.2 or higher.*
Author Registration: *$15.00*

■ Writer's Heaven

WRITER'S HEAVEN transforms the popular wordprocessing program PC-Write into one of the fastest and most efficient editing tools today.

Most wordprocessors are designed by programmers for secretaries, and require memorization of many different key sequences to do editing commands. WRITER'S HEAVEN, using PC-Write's own macro feature, grafts a unique keyboard structure onto PC-Write itself. The result is a wordprocessor that combines speed, power, simplicity, and ease of learning — a wordprocessor that brings on-screen editing significantly closer to the speed of thought. While most of the principal PC-Write command keys remain intact as an alternate command set, you can now edit text without ever moving your hands from the typewriter position, and you can do it faster than ever before.

(PC-SIG Disk# 759)

Special Requirements: *PC-Write, v2.6 or higher.*
Author Registration: *$15.00*

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Word Processors, Text Editors, and Outliners

■ BlackBeard

Programmers — here's an editor that can perform just about every task you'll need to have done. This is due to its windowing capacity (13!), workhorse text formatter, macro capabilites, and integral mouse driver. It works well for source code editing in structured languages such as Pascal, C, FORTRAN, etc.

While its primary use is for source code editing, it also has some wordprocessing features (reformats, centers, cut and paste, etc.) to ease your housekeeping/documentation chores.

(PC-SIG Disk# 611)

Special Requirements: *None.*
Author Registration: *$20.00*

User Comments: *"Easy, full-feature program editor with support. Super quick and friendly."*

■ E88 Text Editor

The E88 TEXT EDITOR (E88) is a powerful, fully-functional text and programming editor completely written in Assembly language. It is both compact and extremely fast.

Rather than using complicated keyboard commands such as those commonly used in other editors or wordprocessors, E88 primarily uses single-keystroke commands. These make it more natural, logical, and easy to learn. File control and set-up functions are handled in a menu-driven command window, and informational prompts make operation easy.

(PC-SIG Disk# 1102)

Special Requirements: *None.*
Author Registration: *$20.00*

■ ESL Writer

ESL WRITER is a word processing program and four help programs especially designed for the writing student.

Help files are included for commands, punctuation, grammar, and revision and can be accessed from within the program or viewed from the outside.

ESL WRITER has a pull-down menu system for the most common editing commands, while other commands are described in detail in the command help file. Use your own printer control characters for print formats (e.g., underlining, italics, bold print, etc.), making ESL WRITER compatible with any printer.

INVISIBLE WRITER lets the user type without seeing the text, which can be brought to the screen with a single command. This helps writers concentrate on their thought processes and content, rather than on grammar, punctuation, or spelling errors.

LISTER asks simple questions and provides ideas to help develop a topic and choose a thesis, and 1001 TOPICS contains 1358 topics in twenty-one categories that are suitable for many different types of composition.

(PC-SIG Disk#'s 899, 900)

Special Requirements: *None.*
Author Registration: *$15.00 to $50.00.*

■ Freeword

FreeWord is a powerful and easy-to-use, menu-driven word processor. It is capable of right and left text justification; moving the cursor either by character, word, line, screen, or page; searching a document for a word or phrase; and moving and copying blocks of text. FreeWord even permits printing in the background mode so that you can proceed with other work!

Features:

- Cursor movement by character, word, line, screen, page
- Move, copy, delete boxes
- Automatic formatting
- Forced page breaks supported
- Typewriter mode
- Search and replace
- Page breaks displayed on-screen

(PC-SIG Disk# 1084)

Special Requirements: *Two floppy drives.*
Author Registration: *$49.00*

■ Galaxy

Updated with a fast spelling checker, GALAXY's wealth of features make it powerful, and easy to learn and use. You get the best of both worlds — a choice of menu or quick keyboard commands for most functions. One's great for beginners, the other for vets who want to go quickly. Or mix and match commands. The pull-down commands work so well, you can use the 55-page user guide as a paperweight after half an hour with the program.

Logical GALAXY boasts a notably short learning curve. Its commands are the result of research into how people use wordprocessors. WordStar users love GALAXY because it understands WordStar commands and handles WordStar files. It lets you print and edit at the same time — a feature that can save hours of time, especially for full-time word crunchers. Macros are easy to develop, and easier still to use. Its window system lets you cut and paste between two files. A zoom feature lets you blow either window up to full-screen size.

(PC-SIG Disk# 765)

Special Requirements: *None.*
Author Registration: *$59.95*

User Comments: *"Wonderful personal wordprocessor." "Fast. Menu system is not complicated and very helpful." "Experienced wordprocessors are up and running in no time. Newcomers learn the advanced features quickly. If you need an easy wordprocessor, this is the one." "I find this does everything most people need a wordprocessor for, only faster and easier."*

■ Jove

JOVE stands for Jonathan's Own Version of EMACS, the popular wordprocessor for programmers, used on mainframe computers. This PC version has all the wordprocessing functions of its mainframe relative, with some interactive PC niceties.

Experienced users will enjoy the convenience of using the same editor they use with UNIX. JOVE provides simple insertion and deletion, multiple buffers and files, virtually unlimited file size, on-line help, file encryption, and more. An extensive built-in macro command language and the complete C source code are also included for further customization. JOVE goes beyond EMACS with a LISP programmer's mode, added document functions, and operating system interaction. On-disk documentation is backed up by a tutorial.

(PC-SIG Disk#'s 1429, 1430, 1454)

Special Requirements: *512K RAM.*
Author Registration: *None.*

■ MICRO-EMACS

MICRO-EMACS is the baby brother of the powerful mainframe wordprocessor EMACS. Experienced EMACS users will enjoy the convenience of using the same editor that they use on mainframes. This PC version has all the functions of its bigger relative, with some PC niceties like 43-line EGA mode.

MICRO-EMACS has several facilities that go beyond simple editing tasks like insertion and deletion. These include multiple buffers and files, virtually unlimited file size, on-line help, file encryption, wild card search/replace, and many modes of operation on files, such as read-only viewing, C-mode for programmers working on source code, or wrap-mode for documents. The system is extremely flexible due to an extensive built-in macro command language which lets the experienced user create or re-map any command. The complete C source code to the program is also provided.

(PC-SIG Disk#'s 1431, 1455)

Special Requirements: *None.*
Author Registration: *None Specified.*

■ Mind Reader

If you're the kind of person who types letters or reports with the same phrases or paragraphs repeatedly, and want to save yourself needless keystrokes, MINDREADER by Brown Bag Software, is for you.

MINDREADER is a curious mix of wordprocessor, spelling checker, address book, and artificial intelligence. As you type, MINDREADER scans the words you are writing and brings up a menu listing words that might fit next in the sentence.

If the word you are going to use is on the menu, simply press a number to choose it, and save keystrokes. If the word you're using is not on the menu, simply continue to type and the menu is removed.

MINDREADER's spelling checker can be taught words as you type. It also remembers which words you use most, making it able to guess which word you'll be using next.

MINDREADER has a built-in glossary that you can program to have up to 260 commonly-used phrases. These can be inserted into a letter or document with as few as three keystrokes, saving valuable time.

With all this, and the address book which lets you do mailmerging and envelope-addressing, MINDREADER becomes the perfect tool for anyone who types for a living.

(PC-SIG Disk# 1110)

Special Requirements: *None.*
Author Registration: *$49.95*

■ New York Edit

NEW YORK EDIT is a program editor, written by the author of NEW YORK WORD, containing a C-like macro programming language which can be used to extend the editor.

Sample macros are included and you can create other macros to define your own commands. Other features of interest to programmers are: multiple windows, column cut-and-paste, capturing DOS output, line marking, regular expression search and substitute, EGA support (forty-three-line display), and a keyboard remapper.

Up to 12 windows can be displayed simultaneously, with a different file in each window. You can enlarge any window to occupy the whole screen. Place bookmarks at various points in the document, and return to any point at any time. Scroll continuously up or down the document, with user-selectable scrolling speed. There are 10

buffers which you can use to temporarily store text. A configuration file is included to change the program parameters.

(PC-SIG Disk# 829)

Special Requirements: *None.*
Author Registration: *$39.95*

■ New York Word

NEW YORK WORD is a powerful word processor that allows split-screen editing, movement of text between windows, and creation of macros (to perform functions with just a few keystrokes), and footnotes. It also features automatic table of contents, automatic index generation, automatic hyphenation, and mail merge. This shareware package is more powerful than some retail word processors.

(PC-SIG Disk# 528)

Special Requirements: *Two floppy drives.*
Author Registration: *$45.00*

User Comments: *"Easy to learn, good windows, good menus, good documentation." "Good for novices."*

■ PC-Outline

PC-OUTLINE, a RAM-resident outline generator, helps you organize any item or numbers of items, by arranging and re-arranging them using different categories of classifications. Very useful for developing plans, presentations, class outlines, and writing projects.

Organize your thoughts, plans, and ideas into hierarchical structures and then, using the thoughtful options, view any level of detail. Define hot-keys, use auto-numbering and auto-indent. Print, import into your wordprocessor, or copy into another outline.

The RAM-resident feature ensures that your organizer is available the next time you have a GREAT IDEA!

(PC-SIG Disk# 480)

Special Requirements: *None.*
Author Registration: *$89.95*

User Comments: *"Better than peanut butter! Works like a charm, easy to learn." "Outstanding ability to move data to other programs while resident makes it more useful than Think Tank." "Just what I need in my speech writing." "Great in conjunction with other applications. The 'popup' abilities are wonderful." "PC-OUTLINE is the best outliner of all. I switched from a $495.00 package to the PC-Outline because it's easy to use." "Wonderful. Great for Mental Organization."*

■ PC-Ted

Programmers — A text editor written especially for you to enter and edit source code files.

PC-TED can process two files at the same time; has full horizontal- vertical screen editing; adjustable horizontal-vertical screen edit; file comparison; full find/replace functions; block commands; an ASCII table; and a DOS exit and command processor. Print files, encrypt files, and select a file to load from a directory list. Help screens are available.

(PC-SIG Disk# 898)

Special Requirements: *None.*
Author Registration: *$30.00*

■ PC-Type II

PC-TYPE II, Jim Button's supercharged new version of PC-TYPE, comes equipped to help you easily create impressive documents.

Not just a simple wordprocessor anymore, PC-TYPE II now comes equipped with all the standard wordprocessing functions, plus many advanced features. These include a mail merge that works hand-in-hand with PC-File databases, WordStar files, and straight ASCII files; a 100,000- word fault finder that checks for misspellings; and a "whoops" key to recover up to 15 lost or deleted lines. Automatically reformat files. You can also create multiple column, newspaper-style documents.

You can graph your data within PC-TYPE II by creating bar or pie charts and scatter diagrams. Also, multiple variables can be graphed and accumulated. Save up to 25 macros per file to eliminate repetitive keystrokes. An

extensive on-line help system provides all the support you need to produce professional work.

(PC-SIG Disk#'s 455, 681, 682)

Special Requirements: *Two floppy drives.*

Author Registration: *$89.95*

➤***ASP member.***

■ PC-Write

PC-WRITE is a wordprocessor with the features and power that overshadow many commercial wordprocessing programs on the market. Advanced users and wordprocessing professionals will find the package multi-faceted; it can accomplish virtually any task on almost any printer. While essentially an advanced program, thanks to a special tutorial and new help screens, beginners can be running in minutes.

PC-WRITE handles files that are as large as the available RAM memory in your computer. The program allows quick and easy access to the features that most wordprocessors include: cut-and-paste of blocks of text; headers and footers; automatic page numbering; editing multiple documents; bold type and other special text enhancements; a spell checker that lets you add words; and many others. Other features include: multiple-column layout; cut-and-paste of rectangular boxes of text; menus to help you select page layout and fonts; support of foreign language characters; and a feature that lets you use your computer like a typewriter.

PC-WRITE supports most printers (actually, hundreds) and includes special supports for laser printers, including Postscript. It also accepts most WordStar commands and converts WordStar files. The pop-up menus make most tasks easier and the user guide is included on-disk.

(PC-SIG Disk#'s 78, 627, 1235)

Special Requirements: *384K RAM.*

Author Registration: *$99.00*

➤***ASP member.***

User Comments: *"The best you've sold me. Gets better as I learn more." "Very good and useful word processor. Easy to install and good documentation. I use it all the time." "PC-Write is the BEST!!"*

■ QIP - The Quick Information Processor

QIP is first and foremost a wordprocessor. If you are accustomed to using wordprocessors and text editors, you will find all the commands found in a good wordprocessor, such as marking and copying blocks, search and replace, etc. A few more pleasant surprises lie in wait for you in the form of features such as effects. Effects gives you easy and flexible control of both display colors and printout fonts.

QIP is also a table processor. Create tables, graphs or lists, large and small, anywhere in your document. These tables, graphs, or lists are managed along with your text to help you produce attractive reports, or to create large databases. More than that, QIP provides many powerful table processing functions, ranging from the simple extract and sort commands, to the enormously versatile update and calculation commands.

When you first start to use QIP, you'll probably view it as a wordprocessor, and experiment with its on-screen formatting, line drawing, color-processing, on-line help system, and printer control capabilities. As you start to work with tables, adding simple lists or charts to your reports, you'll see how all your data can be smoothly collated and updated. Before very long, you'll be using the more powerful table-processing features to generate sales summaries, prepare work schedules, create form letters, or update stock lists. Ultimately, QIP may become your best tool for the most critical task of all — turning volumes of raw data into that essential element of modern life — useful information.

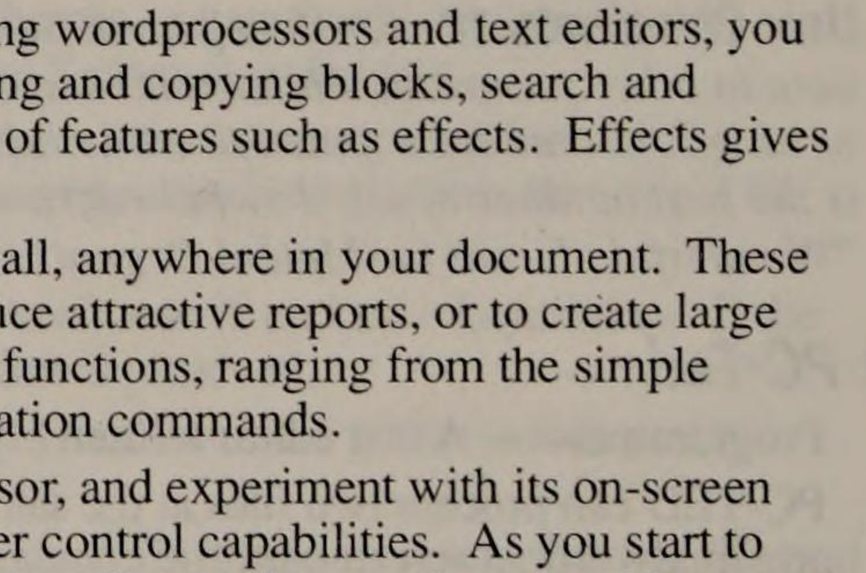
(PC-SIG Disk#'s 1477, 1478, 1479, 1480)

Special Requirements: *500K free memory, hard drive, and an 80286 or faster computer recommended.*

Author Registration: *None stated.*

■ RGB^Techwriter

RGB^TECHWRITER is a wordprocessor specifically designed to fulfill the technical writing needs of engineers, scientists, and students. Scientific notations, equations, and symbols not present on your keyboard are quickly available without the need for an extensive background in wordprocessing. Instead of displaying various arcane notes, it uses color to identify such things as superscripts, subscripts,



RGB^Techwriter (PC-SIG Disk# 1368)

and other symbolic information. This keeps your display relatively uncluttered and insures exact correspondence between screen and printer while allowing you to print complex equations and formulas.

The easy-to-use menu gives you access to all of the standard wordprocessing functions such as: headers and footers, page numbering, search and replace, line centering and justification, underlining and bold print, text-block movement, page-break control, and fractional line spacing. Written in assembly language, it's fast — able to handle typing speeds of up to 120 WPM. Individual files are limited to 62.8K characters, approximately 20 pages of printed material.

(PC-SIG Disk# 1368)

Special Requirements: *CGA, EGA, MCGA, or VGA.*
Author Registration: *$20.00*

■ SageWords

SAGEWORDS is a sophisticated and powerful wordprocessor whose advanced features may take some time to learn. However, for simple text entry, you are up-and-running as soon as you type SW.

The main menu choices are file, window, text, block, goto, search, options, and SageWords. Each of these has a pull-down submenu. File, for instance, has open, close, save, write to, print, get info, and quit. Many of the choices and options can be operated intuitively, and under the SageWords selection there is a help file which explains everything you may not be able to figure out yourself. There are also extensive instructions in the SW.TXT file.

This wordprocessor has a lot going for it. It can be used with ease for light weight wordprocessing, and, with a little more time spent learning the commands and features, it can perform feats matching high-end products.

(PC-SIG Disk# 1170)

Special Requirements: *384K RAM.*
Author Registration: *$25.00*

■ Softkey Editor

SOFTKEY EDITOR is a text editor primarily for programmers.

Many special functions are featured, such as multiple files and windows, DOS file management and program execution, displayable ASCII table, ANSI control sequences, insertable control characters, a Hex and Decimal calculator, and a calendar. Extended ASCII characters can be used to produce boxes, charts and forms, math signs, and Greek characters. ANSI codes can control cursor movement, color, and other display attributes from within a text. This program has block commands, search-and-replace functions, auto indent, word wrap, and line commands.

You can execute commands by using a function key menu at the bottom line of the screen, or use control-key sequences from the keyboard. On-line help is available.

(PC-SIG Disk# 880)

Special Requirements: *Printer.*
Author Registration: *$20.00*

■ Visual Display Editor (VDE)

VDE is a small (30K), fast, powerful text editor. It can work with as little as 128K RAM. This makes it ideal for laptop computers with limited space.

This tough little text editor offers:

- Dual file editing
- Wordwrap and reformat
- Appends to existing file
- Margins, tabs, and spacing control
- Pure ASCII mode
- Block operations
- Find and replace
- Undelete functions
- Macro programs and programmable keys
- Full DOS utilities and subdirectory support

- WordStar compatibility
- Configurable options and more

VDE is fast. Written in 8086 assembler, it writes directly to video RAM and operates entirely in memory, with no disk access during editing. Speed is a factor that more cumbersome, full-featured programs overlook. Example: finding a string near the end of a 60K nondocument file takes WordStar 4 about 20 seconds [8 MHz 8088]; VDE does it in half a second.

(PC-SIG Disk# 1273)

Special Requirements: *Printer.*
Author Registration: *None.*

■ W-ED

Dash off a letter, work on your poetry, or revise your Christmas list with this friendly program. W-ED is a small, fast, and intuitive editor and wordprocessor.

Simplicity of use was a major design criterion. The program is based on the premise that sequences of often-used functions are more productive than many obscure, hard-to-remember, arbitrary commands. The commands are easy to remember. Create an ASCII file that can be printed or re-edited.

(PC-SIG Disk# 415)

Special Requirements: *None.*
Author Registration: *$39.95*

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Word Wrap In wordprocessing, the automatic positioning of the cursor on a new line when the preceding line has been filled. With wordwrap, it is never necessary to hit the return key while typing until you come to the end of a paragraph. For programs see *Word Processors, Text Editors, and Outliners.*

WordPerfect A popular commercial wordprocessor.

WordPerfect 5.0 Learning System Designed for both individual instruction and classroom learning, this tutorial will introduce you to the power of WordPerfect, version 5.0. See *Wordprocessors, Education.*
(PC-SIG Disk#'s 1338, 1339)

WordPerfect 4.2 Learning System Excellent for both individual instruction and classroom learning, this tutorial will introduce you to the power of WordPerfect, version 4.2. See *Wordprocessors, Education.*
(PC-SIG Disk#'s 1260, 1261)

Wordprocessing Hypertext See *Hypertext.*

Wordprocessor Any one of a category of programs which allows editing or manipulation of text. Wordprocessors can range from very simple programs that let you write letters easily, to complex programs that support multiple fonts, three-column formatting, and powerful text manipulation capabilities. As with most software, there is usually a trade-off between power and ease of use. For programs see *Word Processors, Text Editors, and Outliners.*

Wordprocessors, Education

■ WordPerfect 5.0 Learning System

Developed for a classroom setting, LEARNING SYSTEM is a state-of-the-art training tutorial for WordPerfect v5.0. Composed of 500 screens, it covers basic commands and offers you exercises practicing those commands. The corporate trainer can obtain an instructor's guide with transparency originals, pre-test and post-test originals, and student packets. A student can use the tutorial for self-teaching.

Students are introduced to the computer and the WordPerfect wordprocessor and learn to create and edit documents and how to use WordPerfect commands and menus. Starting with basic DOS commands and conventions, the tutorial runs through every WordPerfect command and teaches in detail how to print, spell-check,

and use the thesaurus, and how to handle math columns.
(PC-SIG Disk#'s 1338, 1339)
Special Requirements: *WordPerfect version 5.0.*
Author Registration: *$79.95*

■ *WordPerfect Learning System*

More than 300 screens are used by this multifeatured tutorial to teach you WordPerfect v4.2.

Step-by-step, you learn WordPerfect commands and gain skills to create, edit, or modify a document, and set up parameters for page formatting. The tutorial shows you how to use the spelling checker and the thesaurus, as well as special arithmetic features of WordPerfect. The PC novice will find excellent introductory lessons describing hardware, DOS, and keyboard functions.

WORDPERFECT LEARNING SYSTEM works well for individual use and classroom instruction.
(PC-SIG Disk#'s 1260, 1261)
Special Requirements: *512K RAM, CGA, and WordPerfect v4.2.*
Author Registration: *$79.95*

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WordStar A commercial wordprocessing program.

WordStar 2000 Mouse Menus Finally...inexpensive rodent support for WordStar 2000! MOUSEMENUS lets you add Logitech, Microsoft, or compatible mouse capabilities to WordStar 2000. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 1416)

Wordworker Contains 14,000 references from The New Testament. Search for and display desired verses with one or more word clues. See *Bible Study.*
(PC-SIG Disk#'s 581, 582)

Worksheets See *Spreadsheet Templates.*

WORLD CITY DISTANCE COMPUTER The WORLD CITY DISTANCE COMPUTER provides distance and travel time information between more than 400 different world cities, including most major U.S. cities. See *Maps.*
(PC-SIG Disk# 1127)

World Digitized, The The planetary coordinates for 100,000 different places are here. See where they are, with such details as lakes, islands, coastline and civil borders. See *Maps.*
(PC-SIG Disk#'s 494, 495, 496)

World Generator Creating sci-fi or role-playing games? Here's a handy utility that produces entire universes for you. Generate, store, and edit designs for planets and solar systems! See *Games, Adventure and Text.*
(PC-SIG Disk# 1133)

World29 Plan a trip around the world. Generates maps of the world, continents, countries, and even the individual states of the USA...plus quizzes you on your geography knowledge! See *Maps.*
(PC-SIG Disk# 1392)

Worthy Opponent Play Checkers, Snake Pit, Cornerstone, and Cannonball by modem against an opponent who could be halfway around the world! See *Games, Arcade.*
(PC-SIG Disk# 1175)

Wrapping Paper, Birthday and Christmas See *Entertainment, General.*

Writer's Heaven Customize the popular wordprocessing program PC-Write into one of the fastest and most efficient editing tools today. See *Word Processor and Text Utilities.*
(PC-SIG Disk# 759)

Writing Analyzers See *Word Processor and Text Utilities.*

Writing and Composition Aids

■ 1001 Topics for Composition

1001 TOPICS FOR COMPOSITION is an educational aid to help you choose a topic for writing English compositions and essays. The program has 1358 topics and 21 different categories to choose from.

Categories include personal reminiscences and reactions, familiar essay topics, sports, national and international news, science, the arts and entertainment, philosophy, education, specific literary topics, and more.

Besides having several different subject areas, there are categories for different writing styles, such as comparison and contrast, persuasion, argumentative, exposition, and description. The program first presents a list of main categories and, once you indicate your general line of interest, several suggested topics are listed on the screen.

(PC-SIG Disk# 1088)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Basic English

BASIC ENGLISH can tell you how many words in your poem or prose are on the magic list of 850 words scholars agree are simple and most understandable to the average reader. The program can flag words excluded from the magic list and is valuable for technical writers.

(PC-SIG Disk# 1181)

Special Requirements: *None.*
Author Registration: *$5.00*

■ Book Report

Arrange your thoughts and create the structure of your book report with this organizer.

BOOK REPORT asks several general questions to help you get started writing your book report. Questions concern the basic library information, the setting, the main character and supporting characters, the main scene, and your own feelings about and reactions to the book. The advantage, is it organizes the basic information into simple categories that can be incorporated easily into your final report. Once finished, print or save the information in an ASCII text file.

(PC-SIG Disk# 1088)

Special Requirements: *None.*
Author Registration: *$20.00*

■ Form Letters

Need to remind some of your customers to pay their bills? Have to turn someone down for credit? Would you like to send a thank-you letter to a valued client?

These letters have already been written for you, along with 97 others in this collection of 100 boiler-plate business letters. Tailor each to your individual needs by modifying with any standard ASCII wordprocessor.

Let FORM LETTERS do the work for you while you get down to business!

(PC-SIG Disk# 388)

Special Requirements: *None.*
Author Registration: *None.*
User Comments: *"This covers just about ever type of letter I could every think of needing."*

■ Handwriting Analyst

HANDWRITING ANALYST asks you several questions about a person's signature, and then produces a summary or detailed report on that person based on your responses.

Each report includes information on physical and material drives, intellectual style, personality traits, social behavior, and vocational implications. You can display on-screen, print, or write the report to a disk file. Save the

answers to the questions for up to 20 signatures on the disk. The signature report of this program can be either a direct description of the person, or it can describe how that person wants others to see him.

(PC-SIG Disk# 1050)

Special Requirements: *Hard disk recommended.*
Author Registration: *$49.95*

■ Names

NAMES makes unusual names for use by writers, game players, and just for fun!

The unusual names are created by a scheme similar to a random number generator. You specify how many names you want made. Names are stored in user-designated ASCII files at the rate of four names per line. Since many of the names can't be pronounced or are unusual spellings, you need to select usable names from those created. However, the program is easy, quick, and inexpensive. Even if only a few names in a hundred are usable, the seconds it takes to make them might prove this program helpful for certain users.

(PC-SIG Disk# 1102)

Special Requirements: *None.*
Author Registration: *$5.00*

■ PC-Style

PC-STYLE analyzes ASCII or WordStar text files for readability, personal tone, and action. It makes these decisions based on the number of words per sentence, the percentage of words of longer lengths, the percentage of personal words, the percentage of action words, and other tests.

There are about 25 batch files on this disk which display the information stored in another file of the same name. Those files have information on verbs, manuals, defaults, screens, commands, and much more. Note: This is not a wordprocessor. It analyzes documents that have been written already.

(PC-SIG Disk# 505)

Special Requirements: *None.*
Author Registration: *$29.95*
➤ASP member.
User Comments: *"Great help for beginners writing school papers." "Fine fun for the price. My son uses it at college."*

■ Poetease

Roses are red, violets are blue, POETEASE will rhyme most anything for you!

POETEASE generates rhyming, consonant, or assonant endings for poetry. One drawback: the program matches spelling only. Hence, POETEASE will not list 'liar' as a rhyme word for 'buyer.'

(PC-SIG Disk# 1181)

Special Requirements: *None.*
Author Registration: *$5.00*

■ Poetry Generator

POETRY GENERATOR produces original poetry effortlessly: thousands of phrases, words, and several formats can be combined by random selection to form thousands of different poems. After the poem has been created, you can save it.

The program has a vocabulary of about 20,000 words. The words are organized into short phrases and combined into poems of four to 12 lines. There is very little punctuation inserted, so you can punctuate in whatever way yields individual interpretation. The poems do not always make sense, but such is sometimes the nature of poetry. In any case, the original poetry created is entertaining.

(PC-SIG Disk# 1166)

Special Requirements: *Hard drive.*
Author Registration: *$29.00*

■ Styled/Stylist

Writers — Analyze your writing style. Step back and take a cool look at how you do it.

STYLED and STYLIST chart word and letter patterns in ASCII text files to help you revise, analyze, and compare your writing style. The programs only work with ASCII text files, but included on this disk is a utility program that converts any non-ASCII text file into ASCII format (this includes documents).

These two programs can save you time in your revisions and help improve your writing style. STYLED analyzes each text for word length, punctuation, syntax or nominalization. You can view a text file without leaving the program, and you can shell to DOS. STYLIST does the same thing as STYLED, except that it records your long words, forms of "to be," and potential nominalizations in a disk file.

(PC-SIG Disk# 1181)

Special Requirements: *None.*

Author Registration: *None.*

User Comments: *"Good tutorial. Makes a nice index from your document based upon words you enter in a key file."*

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WSASCII Strip your WordStar files of all control codes so that you are left with an ASCII file. You may also specify what control characters you want to delete. See "FXmaster" listed under *Printer Managers.*

Wyndshell A DOS shell and file management system. Spend your time computing — not figuring out how to get there from here. See *DOS Shells.*

(PC-SIG Disk# 1190)

X

X-Print Memory resident printer utility that will change the printing style of your Epson or compatible printer. See "Printer Utilities 7" listed under *Printer Utilities.*

Xanadu Utilities A colorful directory sort program, a more extensive version of CHKDSK, and a lister of archived files — all on this disk. See *File Management Utilities.*

(PC-SIG Disk# 737)

XCUTE Execute any program in any directory or subdirectory. Go immediately from application to application in different directories just by typing the name of the program. See *File Management Utilities.*

(PC-SIG Disk# 818)

Xdir XDIR replaces the DOS commands DIR and COPY with enhanced functions and adds a function that DOS forgot — MOVE. You can also add a 65-character comment to each file. See *File Management Utilities.*

(PC-SIG Disk# 724)

XDOS A handy collection of DOS enhancements that will make your life a little easier. See *File Management Utilities.*

(PC-SIG Disk# 444)

XLISP An experimental AI programming language written in C. Some LISP expertise is assumed. See *Artificial Intelligence*.
(PC-SIG Disk# 148)

Xmodem Protocols for transmitting files from one personal computer to another and detecting any transmission errors if they occur. For programs, see *Communication Programs*.

XTRPRN XTRPRN extracts and prints call declarations and comments from Turbo Pascal source files. See "Utilities Galore" listed under *Printer Utilities*.

XWord Create your own crossword puzzles. Give 'em to your friends and see if they are as smart as they say they are. See "Game Fun for All" listed under *Games, Cards*.

XXXpert Create an expert system on any subject you like. A question-and-answer diagnostic program will help to solve problems consistently. See *Artificial Intelligence*.
(PC-SIG Disk# 883)

Y

Yahtzee FIVE-OF-A-KIND! YAHTZEE! Play the classic dice-rolling game. See "Board Games" listed under *Games, Board and Dice*.

Ymodem Protocols for transmitting files from one personal computer to another and detecting any transmission errors if they occur. YMODEM is a faster protocol developed after Xmodem. For programs, see *Communication Programs*.

Your Financial Analyst Examine almost any aspect of the terms of a proposed loan. Explore various types of loans, interest rates and payments. Look into retirement and education planning. See *Loan Calculators*.
(PC-SIG Disk# 792)

YOUR VERY OWN Home Inventory Use this menu-driven program to keep track of all you own for insurance purposes or simply to find things. See *Home Management*.
(PC-SIG Disk# 395)

Z

Zip Insulation Calculates the right amount of insulation your home needs to save you money on your heating and cooling bills. See *Reference Materials (books/articles/information/data).*
(PC-SIG Disk# 1468)

ZoomRacks "Database of the Year" says Compute! Magazine. Organize everything from business letters to inventory to sales to collections. Whole businesses are running on ZOOMRACKS alone. See *Databases.*
(PC-SIG Disk#'s 1287, 1288)

ZoomRacks Business Kit A series of 37 business-related ZOOMRACKS templates for time management, invoices, shipping records, memos, business forms, office files and much more. Fine-tune to meet your business needs. See *Databases.*
(PC-SIG Disk# 1289)

ZoomRacks Home Starter Kit Get rid of those manila envelopes or shoeboxes full of old records. Starter Kit lets you put all of your home management paperwork on a computer. Record letters, receipts, inventories, etc. See *Databases.*
(PC-SIG Disk# 1290)

ZoomRacks Small Business Kit Strong accounting package handles A/R's, A/P's, general business transactions, P&L statements, balance sheets, payroll, and more. Selected Database of the Year by Compute! Magazine. See *Databases.*
(PC-SIG Disk# 1291)

ZZap ZZAP is a disk editor that can read, modify, and write any sector on the disk, as well as any file by filename upon the disk — along the same lines as Norton's Utilities. See *Utilities, System or Hardware.*
(PC-SIG Disk# 874)

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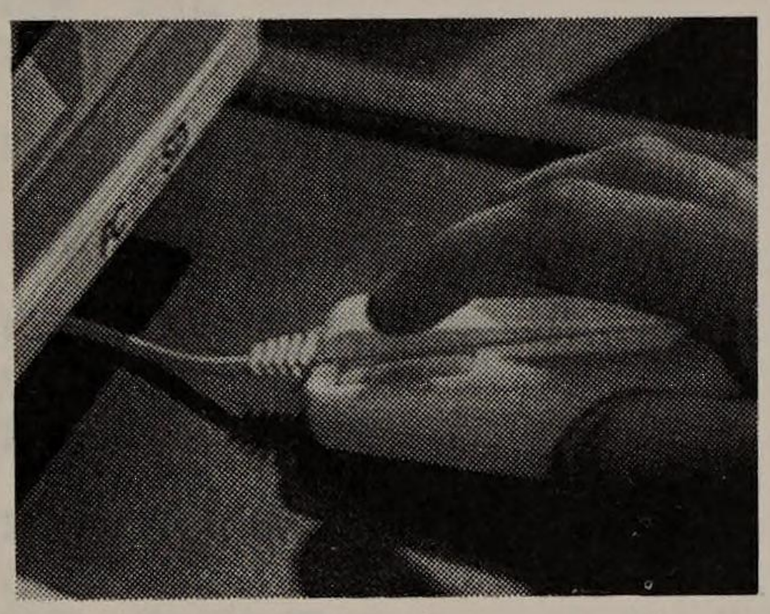
Videos on Computers

Here is a selection of computer related videos from VIDEO-SIG, a distributor of special-interest and hard to find videos. All tapes are VHS.

The Amazing Atari ST

Before you buy a personal computer, you owe it to yourself to buy this tape. In less than an hour, learn



about many ST applications, the GEM interface, windows and the desktop, and an overview of wordprocessing. An easy-to-understand expert shows the expanding world of this inexpensive home/business computer.

Viewer Comments:

"Very good job on Atari, good for first-time user, all PC users should watch at least once."

Color/57 min. 13204

Learning Lotus 1-2-3, Part 1: Spreadsheets

Part One shows you how to design a spreadsheet from scratch, create labels and formulas, and add up your profits from a business. Examples are easy to understand and remember.

Color/61 min. 13551

Learning Lotus 1-2-3, Part 2: Graphics/Printing

Part Two demonstrates how to create a bar graph, line graph, pie and exploded pie chart. You will also learn how to print the graphic and example spreadsheets.

Color/62 min. 13552

My Computer Shop

The following are episodes of 'My Computer Shop,' a television show that reviews computer entertainment products from such companies as Nintendo, Sega, Commodore, and Atari. The show demonstrates the games, and in some episodes, provides secrets and tips for better performance. The first tape reviews games from Nintendo, Sega, and Commodore 64, the second tape spotlights Nintendo Entertainment System games, and part three reviews Amiga, Atari ST, Commodore 64, and Nintendo products.

Viewer Comments:

"Our kids loved it."

Color/51 min. 13066

My Computer Shop — NES

Color/31 min. 13240

My Computer Shop — Part 3

Color/31 min. 13303

Shareware: From the Authors

Four of the top shareware authors explain the concepts, attitudes and the future of shareware. Listen to Bob Wallace, author of PC-Write and one of the original shareware authors; Marshall Magee, author of Automenu and rising young lion of shareware authors; Tom Smith, talented co-author of ProComm; and Jerry Medlin, prolific author of PC-GL, PC-AR, and PC-PR. Each share with you their thoughts and ideas regarding technical support from authors, crippleware, marketing strategies, and what makes shareware the consumer's market of the future. Informal and informative. Interviewed by SHAREWARE Magazine's original editor-in-chief, Mark Barnes.

Color/50 min. 12304

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Viewer Comments:

"Good for beginning and experienced users." "I even learned a couple of things though I have experience." "Tape assumes user has already achieved a certain level of competency using Ventura software." "Real good, you feel you learn something on the first use." "I have recommended it to other companies." "As a trainer, I purchased the tape for use at work and know that it will be a very useful aide." "Excellent presentation of basics of Ventura. The pace was very good because the questioner could stop the instructor for explanations." "I learned more about Ventura and understand more from this tape than I have from the Xerox tape or the other tape that costs five times as much." "Excellent presentation — if more tapes of the 'how to use software' were available, I would buy them — instead of books!!" "It is well worth the money...a great investment."

Color/57 min. 13203

To order call: 1-800-245-6717.

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Submission/Update Information Form

(This form is a vital part of the review process and the primary source for marketing information that appears in SHAREWARE Magazine and our national advertisements—it must be kept current. Please fill out and return to PC-SIG, 1030D East Duane Ave., Sunnyvale, CA 94086.)

Program Title:_____

Submission's Version Number: _____

Author Information (if you are not the author please provide this information for both yourself and the author somewhere on this form):

Name _____ Company Name _____

Address_____

City _____ State_____Zip _____

Daytime Phone _____ Evening Phone _____

Please check one:

☐ I am the author of this shareware program and hereby authorize PC-SIG to distribute my new version of this program.

☐ The program above is, to the best of my knowledge, in the public domain and may be freely distributed.

☐ I wrote the above program and hereby place it in the public domain to be distributed freely.

☐ I am not the author but have provided his/her name and address so PC-SIG can contact him/her regarding submission of this shareware program.

Signature_____Date_____

The other side of this form is intended to help our reviewers by providing them with accurate program information. In addition to answering all questions on this form, please provide a general description of your program as well as a listing of all files including a one-line description of each file, preferably on disk in an ASCII file called PC-SIG.

Thank you for your help. For your trouble, we would like to offer you a free disk from The PC-SIG Library. The disk number you wish to receive: _____

Submission Tracking No. (PC-SIG use only):_____

Program Title: _____

If this is an update, improvements over last update: _____

Unique features of the program (why is your program better?): _____

Program's capacity or limitations (i.e. how many records it will hold, situations or conditions where the program won't work, features described or implied above that only come with registration): _____

Does your program require any special system requirements other than 256K memory, one floppy disk drive, and a monochrome monitor. If yes, please list them: _____

How to start the program: _____

What is the registration fee for your program? _____

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List program files and one-line descriptions of each file: (attach serarate sheet or include with in ASCII file)

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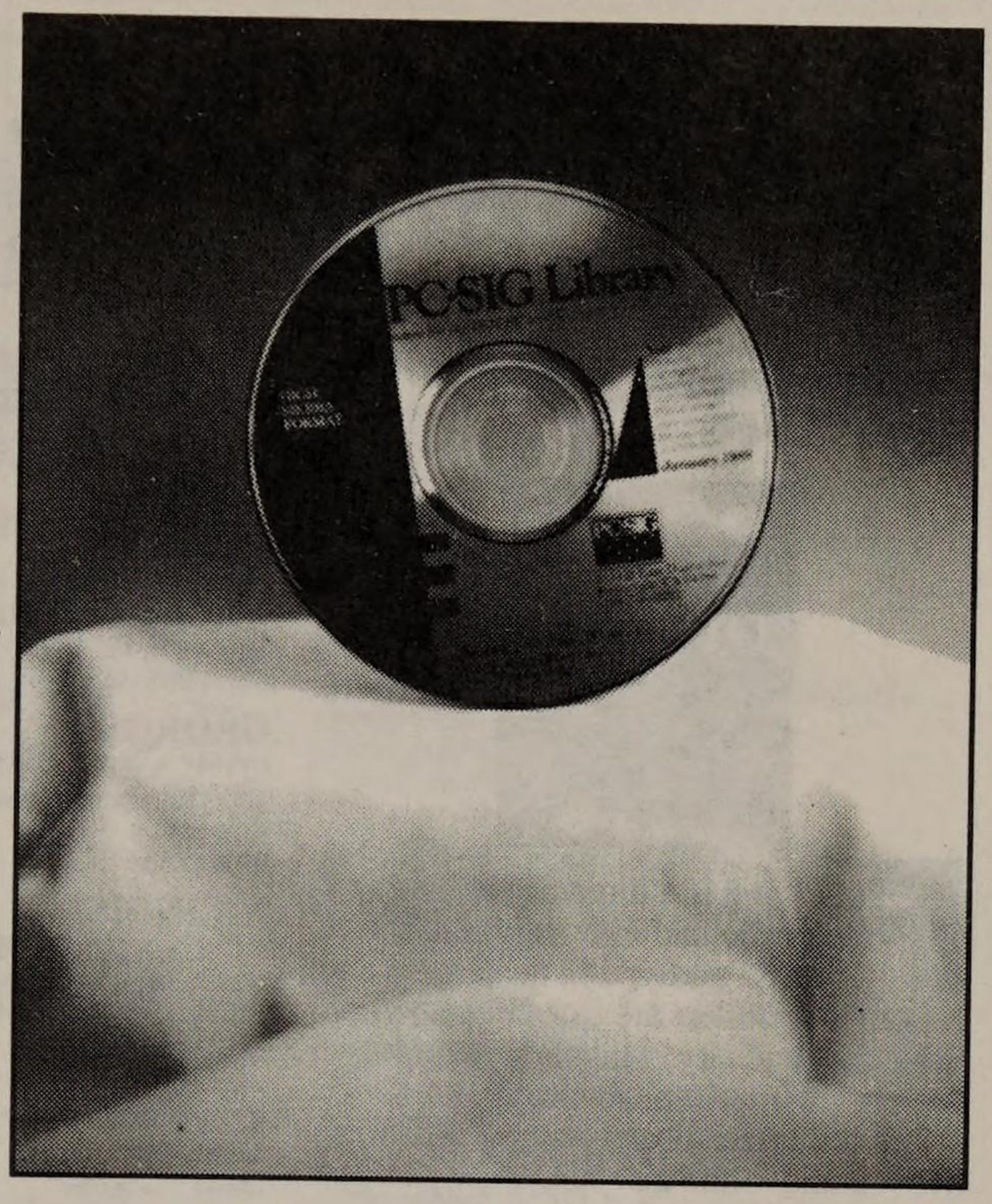

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System Requirements:

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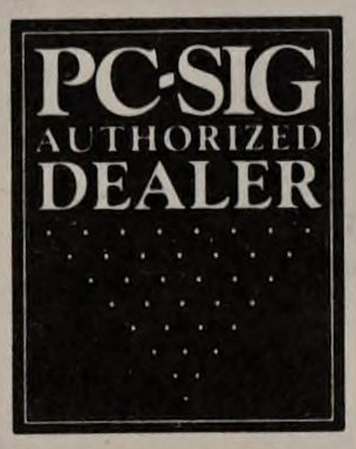

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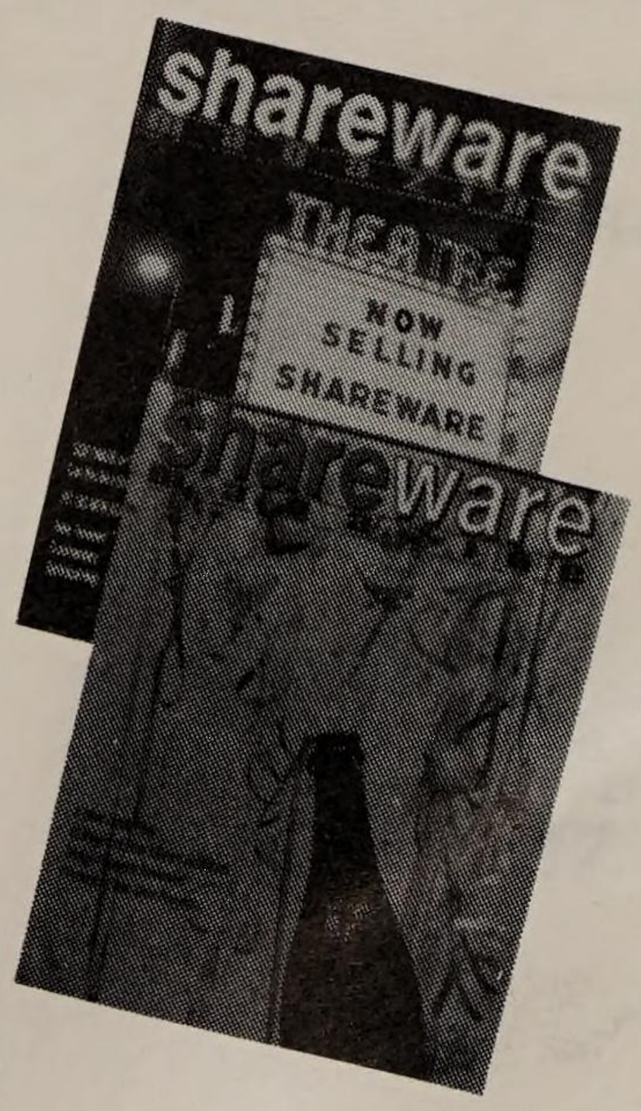

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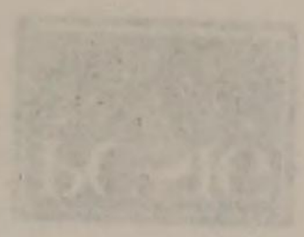

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